UNIVERSITY OF ILLINOIS

ANNUAL REGISTER

1917-1918

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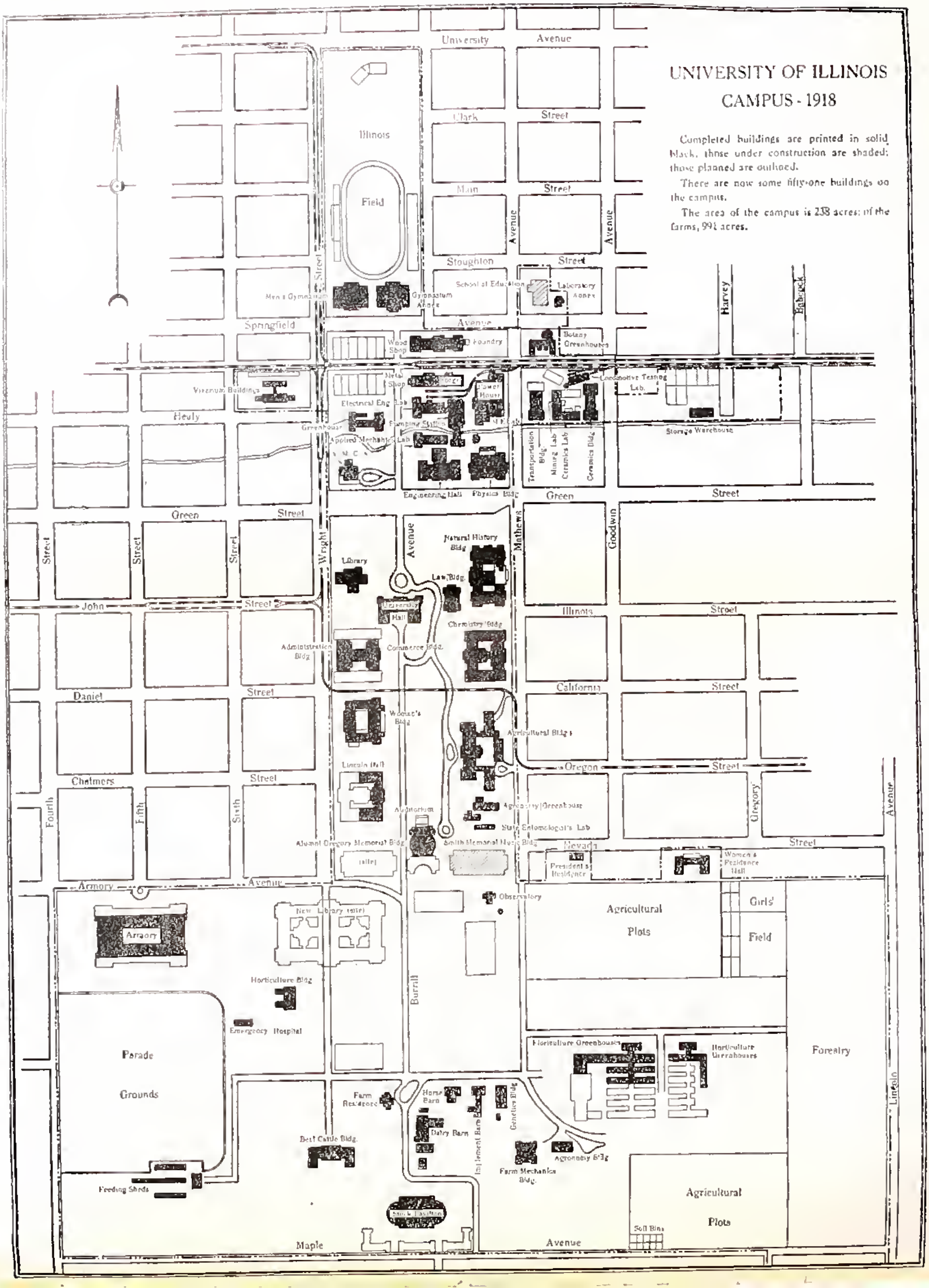

UNIVERSITY OF ILLINOIS

CAMPUS - 1918

Completed buildings are printed in solid black, those under construction are shaded; those planned are outlined.

There are now some fifty-one buildings on the campus.

The area of the campus is 238 acres; of the farms, 991 acres.

Learning and Labor

University of Illinois

ANNUAL REGISTER
1917-1918

General Announcements, 1918-1919
Faculty and Courses, 1917-1918
Students, 1917-1918

URBANA
PUBLISHED BY THE UNIVERSITY
FEBRUARY, 1918

ALLIED PRINTING TRADES UNION LABEL COUNCIL DANVILLE ILL. 2

ILLINOIS PRINTING COMPANY
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CALENDAR 1917, 1918, 1919

1917

JULY

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1919

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THE UNIVERSITY CALENDAR

1917–1918–1919

FIRST SEMESTER, 1917-1918

Sept. 10–14, Mon. to Fri.	Entrance examinations
Sept. 11, Tues.	Quarterly meeting of the Board of Trustees
Sept. 12, Wed.	Scholarship examination for second nominees
SEPT. 17–18, MON., TUES.	REGISTRATION DAYS
Sept. 17, Mon. 7 p. m.	Examination for exemption from Rhetoric 1
Sept. 19, Wed., 8 a. m.	**Instruction begun**
4 p. m.	Freshman convocation
Sept. 20–22, Thurs. to Sat.	Entrance examinations, departments in Chicago
Sept. 22, Sat.	Assignments in the Brigade posted (Engineering Building, first floor, west end)
Sept. 24, Mon.	Military Drill (Mil. 2) and Hygiene lectures (P. T. 1a and 9) begun
Sept. 26–29, Wed. to Sat.	Examinations for removal of conditions, College of Medicine
Sept. 27, Thurs.	Registration, College of Medicine
Sept. 29, Sat., 5 p. m.	Latest date for rebates in full and for change of study-list without fee
Oct. 1, Mon., 4 p. m.	Senate meeting
	Instruction begun, College of Medicine
	Registration, School of Pharmacy
Oct. 1–2, Mon., Tues.	Registration, College of Dentistry
Oct. 2, Tues.	Instruction begun, School of Pharmacy
Oct. 6, Sat.	Registration closes, College of Medicine
Oct. 12, Fri.	Assignment of vacant scholarships in agriculture and household science
Oct. 13, Sat.	Registration closes, College of Dentistry
Oct. 19, Fri.	Latest date for removal of "incompletes"
Oct. 19–21, Fri. to Sun.	Alumni home coming
Nov. 5, Mon., 5 p. m.	Latest day for announcement of subjects for all undergraduate and graduate theses
Nov. 8–10, Thurs. to Sat.	Engineering inspection trips
Nov. 17, Sat.	Latest date for rebates of one-half fees
Nov. 22–24, Thurs. to Sat.	High school conference
	Household science inspection trip
Nov. 29, Thurs.	Thanksgiving day
Dec. 3, Mon.	Illinois day
	Senate meeting
Dec. 4, Tues.	St. Louis Symphony Orchestra
Dec. 7, Fri., 8 p. m.	Iowa-Minnesota-Illinois debates
	Junior promenade
Dec. 11, Tues.	Quarterly meeting of the Board of Trustees
8 p. m.	Christmas concert

Dec. 15, Sat.		Holiday recess begun, School of Pharmacy
Dec. 18–21		Railway inspection trip
Dec. 21, Fri.,	**11 a. m.**	**Holiday recess begun**
	12 m.	Holiday recess begun, Colleges of Medicine and Dentistry
Dec. 22, Sat.,	5 p. m.	Holiday recess begun, School of Pharmacy
Dec. 31, Mon.,	5 p. m.	Latest day for submission of outlines of theses by candidates for professional degrees in engineering
Jan. 3, Thurs.,	**1 p. m.**	**Instruction resumed**
Jan. 7, Mon.		Instruction resumed, School of Pharmacy
Jan. 17–19		Short courses in ceramic engineering and highway engineering
Jan. 14–26		Short course in household science
Jan. 21, Mon.		Minneapolis Symphony Orchestra
Jan. 24, Thurs.		**Semester examinations begun**
Jan. 28–Feb. 2, Mon. to Sat.		Short course in agriculture
Jan. 30–Feb. 2, Wed. to Sat.		Entrance examinations
Jan. 31, Thurs.		**Semester examinations ended**

SECOND SEMESTER, 1917–1918

FEB. 4, 5, MON., TUES.		REGISTRATION DAYS
Feb. 4–8, Mon. to Fri.		Semester examinations, College of Dentistry
Feb. 4–9, Mon. to Sat.		Semester examinations, College of Medicine
Feb. 6, Wed.,	**8 a. m.**	**Instruction begun**
Feb. 9, Sat.		First semester ends, School of Pharmacy
Feb. 11, Mon.		Second semester, Colleges of Medicine and Dentistry and School of Pharmacy Senate meeting
Feb. 12, Tues.		Lincoln day
Feb. 16, Sat.		Last day for rebates in full and for change of study-list without fee
Feb. 22, Fri.		Washington day Military ball
March 1, Fri.		Annual band concert
March 2, Sat.		University day
March 8, Fri.		Latest day for removal of "incompletes" and for removal by seniors of first semester failures
March 12, Tues.		Annual meeting of the Board of Trustees
March 15, Fri.		Midwest League debate
March 25, Mon.		Chicago Symphony Orchestra
March 28, Thurs., 11 a. m.		**Easter recess begun**
March 29–April 1		Chemistry inspection trip
April 1, Mon.		Instruction resumed, School of Pharmacy
	5 p. m.	Latest day for filing of completed theses by candidates for professional degrees in engineering Senate meeting
April 1–7		Geology inspection trip
April 2, Tues.	**1 p. m.**	**Instruction resumed**
April 6, Sat., 5 p. m.		Latest day for rebates of one-half fees
April 8, Mon.		Animal husbandry inspection trip

April 13, Sat.		Russian Symphony Orchestra
May 3, Fri.		Northern Oratorical League contest
May 9–11, Thurs. to Sat.		Public school art exhibit
May 10, Fri.		Interscholastic oratorical contest
May 11, Sat.		Interscholastic athletic meet
May 18, Sat.	12 m.	Latest day for the receipt by the Dean of the Graduate School of certified copies of doctors' theses
May, between 15 and 31		Hazleton prize drill Annual inspection Company competitive drill
May 27, Mon.		Final examinations begun, Colleges of Medicine and Dentistry
May 30, Thurs.		Military day
May 31, Fri.,	**8 a. m.**	**Final examinations begun**
June 1, Sat.		Class day, College of Dentistry Latest day for acceptance of undergraduate theses
	12 m.	Latest day for receipt by the Dean of the Graduate School of certified copies of masters' theses
June 3, Mon.		Senate meeting
June 5, Wed.		Final examinations ended, School of Pharmacy
June 7, Fri.		**Final examinations ended**
June 8, Sat.		Final examinations ended, College of Medicine Class day and alumni meeting, College of Medicine
June 9, Sun.		Baccalaureate address
June 10, Mon.		Class day
	8:30 p. m.	Senior ball
June 11, Tues.		Alumni day
	10 a. m.	Quarterly meeting of the Board of Trustees
JUNE 12, WED.		FORTY-SEVENTH ANNUAL COMMENCEMENT

SUMMER SESSION, 1918

JUNE 17, MON.	REGISTRATION DAY
June 18, Tues.	**Instruction begun**
July 6, 13, 20, 27, Sat.	Entrance examinations
Aug. 8, 9, Thurs., Fri.	**Final examinations**

FIRST SEMESTER, 1918-1919

Sept. 9–13, Mon. to Fri.		Entrance examinations
Sept. 10, Tues.		Quarterly meeting of the Board of Trustees
Sept. 11, Wed.		Scholarship examination for second nominees
SEPT. 16–17, MON., TUES.		REGISTRATION DAYS
	7 p. m.	Examination for exemption from Rhetoric 1
Sept. 18, Wed.,	**8 a. m.**	**Instruction begun**
	4 p. m.	Freshman convocation
Sept. 18–20, Wed. to Fri.		Entrance examinations, departments in Chicago
Sept. 21, Sat.		Assignments in the Brigade posted (Engineering Building, first floor, west end)
Sept. 23, Mon.		Military Drill (Mil. 2) and Hygiene lectures (P. T. 1a and 9) begun
Sept. 23–26, Mon. to Thurs.		Examinations for removal of conditions, College of Medicine

Sept. 28, Sat., 5 p. m.	Latest date for rebates in full and for change of study-list without fee
Sept. 30, Mon., 8 a. m.	Registration begun, Colleges of Medicine and Dentistry and School of Pharmacy Instruction begun, College of Medicine
Oct. 1, Tues.	Instruction begun, School of Pharmacy
Oct. 2, Wed., 8:30 a. m.	Instruction begun, College of Dentistry
Oct. 5, Sat.	Registration closes, College of Medicine Senate meeting
Oct. 11, Fri.	Assignment of vacant scholarships in agriculture and household science
Oct. 12, Sat.	Registration closes, College of Dentistry
Oct. 18, Fri.	Latest date for removal of "incompletes"
Nov. 4, Mon., 5 p. m.	Latest day for announcement of subjects for all undergraduate and graduate theses
Nov. 11–13, Mon. to Wed.	Engineering inspection trips
Nov. 16, Sat.	Latest dates for rebate of one-half fees
Nov. 21–23, Thurs. to Sat.	High school conference Household science inspection trip
Nov. 27, Wed., 12 m.	Thanksgiving recess begun, Colleges of Medicine and Dentistry
Nov. 28, Thurs.	Thanksgiving day
Dec. 2, Mon., 8 a. m.	Instruction resumed, Colleges of Medicine and Dentistry
4 p. m.	Senate meeting
Dec. 3, Tues.	Illinois day
Dec. 6, Fri.	Junior promenade
Dec. 10, Tues.	Quarterly meeting of the Board of Trustees
8 p. m.	Christmas concert
Dec. 13, Fri., 8 p. m.	Iowa-Minnesota-Illinois debates
Dec. 21, Sat., 11 a. m.	**Holiday recess begun**
Dec. 23, Tues., 5 p. m.	Holiday recess begun, Colleges of Medicine and Dentistry
Dec. 31, Tues., 5 p. m.	Latest day for submission of outlines of theses by candidates for professional degrees in engineering
Jan. 3, Fri., 1 p. m.	**Instruction resumed**
Jan. 6, Mon., 8 a. m.	Instruction resumed, Colleges of Medicine and Dentistry and School of Pharmacy
Jan. 6–18	Short course in highway engineering
Jan. 13–25	Short courses in agriculture and household science
Jan. 23, Thurs.	Semester examinations begun
Jan. 27–31, Mon. to Fri.	Short course in business
Jan. 29–Feb. 1, Wed. to Sat.	Entrance examinations
Jan. 30, Thurs.	Semester examinations ended

SECOND SEMESTER, 1918-1919

FEB. 3, 4, MON., TUES.	REGISTRATION DAYS
Feb. 3–8, Mon. to Sat.	Semester examinations, Colleges of Medicine and Dentistry
Feb. 5, Wed., 8 a. m.	Instruction begun

Feb. 8, Sat.	First semester ends, School of Pharmacy
Feb. 10, Mon.	Senate meeting
	Second semester, Colleges of Medicine and Dentistry and School of Pharmacy
Feb. 12, Wed.	Lincoln day
Feb. 15, Sat.	Last day for rebates in full and for change of study-list without fee
Feb. 21, Fri.	Military ball
Feb. 22, Sat.	Washington day
March 2, Sun.	University day
March 7, Fri.	Latest day for removal of "incompletes" and for removal by seniors of first semester failures
	Annual band concert
March 11, Tues.	Annual meeting of the Board of Trustees
March 14, Fri.	Midwest League debate
April 1, Tues., 5 p. m.	Latest day for filing of completed theses by candidates for professional degrees in engineering
April 5, Sat., 5 p. m.	Latest day for rebates of one-half fees
April 7, Mon.	Animal husbandry inspection trip
	Senate meeting
April 17, Thurs., 11 a. m.	**Easter recess begun**
April 18, Fri.	Easter recess, School of Pharmacy
April 18–21	Chemistry inspection trip
April 21, Mon.	Instruction resumed, Colleges of Medicine and Dentistry and School of Pharmacy
April 21–26	Geology inspection trip
April 22, Tues., 1 p. m.	**Instruction resumed**
May 2, Fri.	Northern Oratorical League contest
May 8–10, Thurs. to Sat.	Public school art exhibit
May 9, Fri.	Interscholastic oratorical contest
May 10, Sat.	Interscholastic athletic meet
May, between 15 and 31	Hazelton prize drill
	Annual inspection
	Company competitive drill
May 17, Sat., 12 m.	Latest day for the receipt by the Dean of the Graduate School of certified copies of doctors' theses
May 26, Mon.	Final examinations begun, Colleges of Medicine and Dentistry
May 29, Thurs., 8 a. m.	**Final examinations begun**
	Military day
May 31, Sat.	Class day, College of Dentistry
June 2, Mon.	Latest day for acceptance of undergraduate theses
	Senate meeting
June 4, Wed.	Final examinations ended, School of Pharmacy
June 5, Thurs.	**Final examinations ended**
June 7, Sat. 12 m.	Latest day for receipt by the Dean of the Graduate School of certified copies of masters' theses
	Final examinations ended, College of Medicine
	Class day and alumni meeting, College of Medicine

June 8, Sun.		Baccalaureate address
June 9, Mon.		Class day
	8:30 p. m.	Senior ball
June 10, Tues.		Alumni day
	10 a. m.	Quarterly meeting of the Board of Trustees
JUNE 11, WED.		FORTY-EIGHTH ANNUAL COMMENCEMENT

THE BOARD OF TRUSTEES

MEMBERS EX OFFICIO

The Governor of Illinois

HON. FRANK O. LOWDEN	*Springfield*

The President of the State Board of Agriculture

HON. JAMES E. TAGGART	*Freeport*

The Superintendent of Public Instruction

HON. FRANCIS G. BLAIR	*Springfield*

ELECTED MEMBERS

(*Term, 1913–1919*)

JOHN R. TREVETT	*Champaign*
CAIRO A. TRIMBLE[1]	*Princeton*
FLORENCE E. WATSON	*Iola*

(*Term, 1915–1921*)

ROBERT F. CARR	*2005 McCormick Building, Chicago*
LAURA B. EVANS	*Taylorville*
ROBERT R. WARD	*Benton*

(*Term, 1917–1923*)

WILLIAM L. ABBOTT	*72 West Adams Street, Chicago*
MARY E. BUSEY	*Urbana*
OTIS W. HOIT	*Geneseo*

OFFICERS OF THE BOARD

William L. Abbott, 72 West Adams Street, Chicago	President
Harrison E. Cunningham, Urbana	Secretary
Edmund D. Hulbert, Chicago	Treasurer
Lloyd Morey, Urbana	Acting Comptroller

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[1] Appointed by Governor Lowden in 1917 to fill the unexpired term of Mrs. Ellen M. Henrotin, resigned.

COMMITTEES OF THE BOARD OF TRUSTEES

EXECUTIVE COMMITTEE

William L. Abbott, Chairman; Robert F. Carr, Otis W. Hoit

STANDING COMMITTEES

Buildings and Grounds—William L. Abbott, Chairman; Mary E. Busey, Robert F. Carr, Laura B. Evans, Robert R. Ward

Finance—Otis W. Hoit, Chairman; James E. Taggart, John R. Trevett, Robert R. Ward

Engineering—John R. Trevett, Chairman; Robert F. Carr, William L. Abbott

Agriculture—Otis W. Hoit, Chairman; James E. Taggart, John R. Trevett

College of Medicine and School of Pharmacy—Laura B. Evans, Chairman; William L. Abbott, Otis W. Hoit

Students' Welfare—Florence E. Watson, Chairman; Mary E. Busey, Laura B. Evans

Instruction—Francis G. Blair, Chairman; Robert R. Ward, Florence E. Watson

Library—Mary E. Busey, Chairman; Florence E. Watson

ADVISORY BOARDS

COLLEGE OF LAW

John G. Drennan	*Chicago*
William R. Hunter	*Kankakee*
Walter C. Lindley	*Danville*
George T. Page	*Peoria*
Peter P. Schaefer	*Champaign*

SCHOOL OF PHARMACY

E. A. Sell	*Springfield*
O. U. Sisson	*Chicago*
John C. Wheatcroft	*Grayville*
George C. Lescher	*Galesburg*
Albert Zimmerman	*Peoria*

DEPARTMENT OF CERAMIC ENGINEERING

F. W. Butterworth	*Danville*
A. W. Gates	*Monmouth*
W. D. Gates	*Chicago*
J. W. Stipes	*Champaign*
Theodore G. Dickinson	*Chicago*

COLLEGE OF ENGINEERING FOR THE RAILWAY INDUSTRIES OF ILLINOIS

R. H. Aishton	*Chicago*
C. H. Markham	*Chicago*
W. G. Bierd	*Chicago*
Hale Holden	*Chicago*
W. B. Storey	*Chicago*

AGRICULTURAL EXPERIMENT STATION

Dairy Husbandry Section

Charles Foss	*Cedarville*
Joseph Newman	*Elgin*
R. B. Swift	*Libertyville*
F. G. Austin	*Effingham*
J. P. Mason	*Elgin*

Farm Crops Section

Charles A. Rowe	*Jacksonville*
A. A. Hill	*Casner*
A. C. Rice	*Jacksonville*
H. J. Sconce	*Sidell*
G. C. Outten	*Mt. Zion*

Floriculture Section

H. E. Smith	*Danville*
J. C. Vaughan	*Chicago*
W. N. Rudd	*Morgan Park*
F. L. Washburn	*Bloomington*
J. F. Ammann	*Edwardsville*

Horticulture Section

J. Mack Tanner	*Flora*
H. A. Aldrich	*Neoga*
H. M. Dunlap	*Savoy*
August Geweke	*Des Plaines*
W. S. Perrine	*Centralia*

Live-Stock Section

F. E. Drury	*Jacksonville*
Joseph Fulkerson	*Jerseyville*
M. P. Lantz	*Carlock*
C. J. McMasters	*Altona*
Charles R. Taylor	*Williamsville*

Soils Section

Ralph Allen	*Delavan*
J. P. Mason	*Elgin*
C. V. Gregory	*Chicago*
F. I. Mann	*Gilman*
A. N. Abbott	*Morrison*

ADMINISTRATIVE OFFICERS

President of the University

Edmund Janes James, Ph.D., LL.D.

THE COUNCIL OF ADMINISTRATION

Edmund Janes James, Ph.D., LL.D., *President*

David Kinley, Ph.D., LL.D., *Vice-President, Dean of the Graduate School, and Professor of Economics*

Eugene Davenport, M.Agr., LL.D., *Dean of the College of Agriculture, Director of Agricultural Extension Service, and Professor of Thremmatology*

Thomas Arkle Clark, B.L., *Dean of Men and Professor of Rhetoric*

Kendric Charles Babcock, B.Lit., Ph.D., LL.D., *Dean of the College of Liberal Arts and Sciences*

Frederick Brown Moorehead, A.B., D.D.S., M.D., *Dean of the College of Dentistry and Professor of Oral Surgery and Pathology*

Albert Chauncey Eycleshymer, Ph.D., M.D., *Dean of the College of Medicine, Professor of Anatomy, and Head of the Department of Anatomy*

Nathan Austin Weston, Ph.D., *Acting Dean of the College of Commerce and Business Administration and Assistant Professor of Economics*

Henry Winthrop Ballantine, A.B., LL.B., *Dean of the College of Law and Professor of Law*

Fanny Cook Gates, Ph.D., *Dean of Women*

Charles Russ Richards, M.E., *Dean of the College of Engineering, Director of the School of Railway Engineering and Administration, and Acting Professor of Mechanical Engineering*

GENERAL ADMINISTRATIVE OFFICERS

THE PRESIDENT'S OFFICE

Edmund Janes James, Ph.D., LL.D., *President*

Anne Verlinda Whitson, A.B. *Private Secretary to the President*

Vergil Vivian Phelps,[1] B.D., Ph.D., *Executive Secretary*

THE VICE-PRESIDENT'S OFFICE

David Kinley, Ph.D., LL.D., *Vice-President*

THE REGISTRAR'S OFFICE

Charles Maxwell McConn, A.M., *Registrar*

Harrison Edward Cunningham, A.B., *Assistant Registrar*

Levi Augustus Boice, *Recorder*

Ira Melville Smith, LL.B., *Examiner*

George Philip Tuttle, Jr., B.S., *Examiner*

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[1] Resigned, February 28, 1918.

THE BUSINESS OFFICE

Lloyd Morey, A.B., B.Mus., C.P.A., *Acting Comptroller*
Marsh Everett Thompson, *Bursar*
Ennes Charles Rayson, A.B., *Auditor*
Harold Mortimer Edwards, LL.B., *Purchasing Agent*

THE DEAN OF MEN'S OFFICE

Thomas Arkle Clark, B.L., *Dean*
Arthur Ray Warnock, A.B., *Assistant Dean*

THE DEAN OF WOMEN'S OFFICE

Fanny Cook Gates, Ph.D., *Dean*

THE ADVISER TO FOREIGN STUDENTS' OFFICE

Arthur Romeyn Seymour, Ph.D., *Adviser*

THE HIGH SCHOOL VISITOR'S OFFICE

Horace Adelbert Hollister, A.M., *High School Visitor*
John Joseph Didcoct,[1] A.M., M.S., *Assistant High School Visitor*
James Oscar Marbury, A.M., *Assistant High School Visitor*

THE INFORMATION OFFICE

Burt Eardley Powell, Ph.D., *Director and University Historian*

THE SUPERVISING ARCHITECT'S OFFICE

James McLaren White, B.S., *Supervising Architect*
Joseph Morrow, *Superintendent of Buildings*
Evelyn Atkinson, *Superintendent of Grounds*

THE UNIVERSITY HEALTH OFFICER

Joseph Howard Beard, A.M., M.D., *Health Officer*

THE DEPARTMENT OF PHYSICAL TRAINING FOR MEN

George A Huff, B.S., *Director*

THE DEPARTMENT OF PHYSICAL TRAINING FOR WOMEN

Louise Freer, B.S., *Director*

THE DEPARTMENT OF MILITARY SCIENCE

Edward William McCaskey, Major U. S. A., Ret'd, *Professor and Commandant*
Fredrick William Post, 1st Sergeant U. S. A., Ret'd, *Administrative Assistant*

THE UNIVERSITY LIBRARY

Phineas Lawrence Windsor, Ph.B., *Director*
Francis Keese Wynkoop Drury, A.M., B.L.S., *Assistant Librarian*

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[1] Resigned, December 31, 1917.

CURATORS

Arthur Stanley Pease, Ph.D., *Professor of the Classics and Curator of the Museum of Classical Art and Archeology*
Neil Conwell Brooks, Ph.D., *Assistant Professor of German and Curator of the Museum of European Culture*
Frank Collins Baker, B.S., *Curator of the Museum of Natural History*
Albert TenEyck Olmstead, Ph.D., *Professor of History and Curator of the Oriental Museum*

THE COLLEGES AND SCHOOLS

THE COLLEGE OF LIBERAL ARTS AND SCIENCES

Kendric Charles Babcock, B.Lit., Ph.D., LL.D., *Dean*
Howard Vernon Canter, Ph.D., *Assistant Dean*

THE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

Nathan Austin Weston, Ph.D., *Acting Dean*

THE COLLEGE OF ENGINEERING

Charles Russ Richards, M.E., *Dean*
Harvey Herbert Jordan, B.S., *Assistant Dean*

THE COLLEGE OF AGRICULTURE

Eugene Davenport, M.Agr., LL.D., *Dean*
Fred Henry Rankin, B.S., *Assistant to the Dean*

THE COLLEGE OF LAW

Henry Winthrop Ballantine, A.B., LL.B., *Dean*

THE GRADUATE SCHOOL

David Kinley, Ph.D., LL.D., *Dean*

THE LIBRARY SCHOOL

Phineas Lawrence Windsor, Ph.B., *Director*
Frances Simpson, M.L., B.L.S., *Assistant Director*

THE SCHOOL OF MUSIC

John Lawrence Erb, F.A.G.O., *Director*

THE SCHOOL OF EDUCATION

Werrett Wallace Charters, Ph.D., *Director*
John Alford Stevenson, A.M., *Secretary*

THE SCHOOL OF RAILWAY ENGINEERING AND ADMINISTRATION[1]

Charles Russ Richards, M.E., *Director*

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[1] This School has been inactive during the year 1917-18.

THE SUMMER SESSION, 1918

Kendric Charles Babcock, Ph.D., LL.D., *Director*

THE COLLEGE OF MEDICINE

Albert Chauncey Eycleshymer, B.S., Ph.D., M.D., *Dean*
William Henry Browne, *Secretary*

THE COLLEGE OF DENTISTRY

Frederick Brown Moorehead, A.B., D.D.S., M.D., *Dean*
William Henry Browne, *Secretary*

THE SCHOOL OF PHARMACY

William Baker Day, Ph.G., *Acting Dean and Secretary*

OFFICERS OF INSTRUCTION

THE SENATE[1]

Edmund Janes James, Ph.D., LL.D., *President*

Nathan Clifford Ricker, D.Arch., *Professor of Architecture*, Emeritus

Ira Osborn Baker, C.E., D.Eng., *Professor of Civil Engineering*

Stephen Alfred Forbes, Ph.D., LL.D., *Professor of Entomology*

Charles Wesley Rolfe, M.S., *Professor of Geology*, Emeritus

Arthur Newell Talbot, C.E., *Professor of Municipal and Sanitary Engineering*

Samuel Wilson Parr, M.S., *Professor of Applied Chemistry*

Herbert Jewett Barton, A.M., *Professor of the Latin Language and Literature, Chairman of the Department of the Classics, and Secretary of the Senate*

Charles Melville Moss, Ph.D., *Professor of the Greek Language and Literature*

Daniel Kilham Dodge, Ph.D., *Professor of the English Language and Literature*

David Kinley, Ph.D., LL.D., *Professor of Economics, Vice-President, and Dean of the Graduate School*

Eugene Davenport, M.Agr., LL.D.. *Professor of Thremmatology, Dean of the College of Agriculture, Director of the Agricultural Experiment Station, and Director of Agricultural Extension Service*

Albert Pruden Carman, A.M., D.Sc., *Professor of Physics*

Evarts Boutell Greene,[2] Ph.D., *Professor of History*

Thomas Arkle Clark, B.L., *Professor of Rhetoric and Dean of Men*

Arthur Hill Daniels, Ph.D., *Professor of Philosophy*

Newton Alonzo Wells, M.P., *Professor of Architectural Decoration*

Isabel Bevier, Ph.M., *Professor of Household Science and Director of the Courses in Household Science*

Cyril George Hopkins, M.S., Ph.D., *Professor of Agronomy*

Morgan Brooks, Ph.B., M.E., *Professor of Electrical Engineering*

George A Huff, B.S., *Director of Physical Training for Men*

James McLaren White, B.S., *Professor of Architectural Engineering and Supervising Architect*

Herbert Windsor Mumford, B.S., *Professor of Animal Husbandry*

Maurice Henry Robinson, Ph.D., *Professor of Industry and Transportation*

Joseph Cullen Blair, M.S.A., *Professor of Horticulture*

Horace Adelbert Hollister, A.M., *Professor of Education and High School Visitor*

Oliver Albert Harker, A.M., LL.D., *Professor of Law*

Edward John Lake, B.S., *Assistant Professor of Art and Design and Acting Head of the Department of Art and Design*

Thomas Edward Oliver, Ph.D., *Professor of Romance Languages*

Wilber John Fraser, M.S., *Professor of Dairy Farming*

Frederick Green, A.M., LL.B., *Professor of Law*

Harry Sands Grindley, D.Sc., *Professor of Animal Nutrition*

James Wilford Garner, Ph.D., *Professor of Political Science*

Edgar Jerome Townsend, Ph.D., LL.D., *Professor of Mathematics*

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[1] The Senate is composed of all University officers of full professorial rank and all others in charge of independent departments of instruction. The order is that of seniority. For index of names, see page 523.

[2] On leave of absence from January 1, 1918.

EDWARD BARTOW,[1] Ph.D., *Professor of Sanitary Chemistry and Director of the State Water Survey*

WILLIAM ALBERT NOYES, Ph.D., LL.D., *Professor of Chemistry and Director of the Chemical Laboratory*

ERNEST RITSON DEWSNUP,[2] M.A., *Professor of Railway Administration*

GEORGE ABRAM MILLER, Ph.D., *Professor of Mathematics*

EDWARD CARY HAYES, Ph.D., *Professor of Sociology*

JULIUS GOEBEL, Ph.D., *Professor of German*

GEORGE ALFRED GOODENOUGH, M.E., *Professor of Thermodynamics*

PHINEAS LAWRENCE WINDSOR, Ph.B., *Director of the Library and the Library School*

BOYD HENRY BODE, Ph.D., *Professor of Philosophy*

HENRY BALDWIN WARD, Ph.D., *Professor of Zoology*

HARRY HARKNESS STOEK, B.S., E.M., *Professor of Mining Engineering*

EDWARD CHARLES SCHMIDT,[1] M.E., *Professor of Railway Engineering*

STUART PRATT SHERMAN, Ph.D., *Professor of English*

CHARLES RUSS RICHARDS, M.E., M.M.E., *Acting Professor of Mechanical Engineering and Head of the Department of Mechanical Engineering, Dean of the College of Engineering, Director of the Engineering Experiment Station, and Director of the School of Railway Engineering and Administration*

CHARLES SPENCER CRANDALL, M.S., *Professor of Pomology*

EDWARD HARRIS DECKER, A.B., LL.B., *Professor of Law and Acting Librarian of the College of Law*

JOHN ARCHIBALD FAIRLIE, Ph.D., *Professor of Political Science*

JOHN WILLIAM LLOYD, Ph.D., *Professor of Olericulture*

JEREMIAH GEORGE MOSIER, B.S., *Professor of Soil Physics*

JOHN NORTON POMEROY,[3] A.M., LL.B., *Professor of Law*

LOUIE HENRIE SMITH, Ph.D., *Professor of Plant Breeding*

BRUCE WILLET BENEDICT,[1] B.S., *Director of Shop Laboratories in the Department of Mechanical Engineering*

WILLIAM EDWARD BURGE, Ph.D., *Assistant Professor of Physiology and Acting Head of the Department of Physiology*

ERNEST LUDLOW BOGART, Ph.D., *Professor of Economics*

WILLIAM GREEN HALE, B.S., LL.B., *Professor of Law*

MADISON BENTLEY,[1] B.S., Ph.D., *Professor of Psychology and Director of the Psychological Laboratory*

CHARLES FREDERICK HOTTES, Ph.D., *Professor of Plant Physiology*

HARRY ALEXIS HARDING, Ph.D., *Professor of Dairy Bacteriology and Head of the Department of Dairy Husbandry*

KENDRIC CHARLES BABCOCK, B.Lit., Ph.D., LL.D., *Dean of the College of Liberal Arts and Sciences*

WILLIAM TRELEASE, D.Sc., LL.D., *Professor of Botany and Acting Head of the Department of Botany*

JOHN STERLING KINGSLEY, D.Sc., *Professor of Zoology*

CLARENCE WALWORTH ALVORD, Ph.D., *Professor of History*

WILLIAM SHIRLEY BAYLEY, Ph.D., *Professor of Geology*

WALTER COSTELLA COFFEY, M.S., *Professor of Sheep Husbandry*

LAURENCE MARCELLUS LARSON, Ph.D., *Professor of History*

OTTO EDUARD LESSING, Ph.D., *Professor of German*

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[1] On leave for military service.
[2] On leave, second semester, for military service.
[3] On leave, second semester.

Ellery Burton Paine, M.S., E.E., *Professor of Electrical Engineering and Acting Head of the Department of Electrical Engineering*

Henry Lewis Rietz, Ph.D., *Professor of Mathematical Statistics*

Charles Mulford Robinson,[1] A.M., *Professor of Civic Design*

Frank Smith, A.M., *Professor of Systematic Zoology*

Joel Stebbins, Ph.D., *Professor of Astronomy*

Edward Wight Washburn, Ph.D., *Professor of Ceramic Chemistry and Head of the Department of Ceramic Engineering*

Loring Harvey Provine, B.S., A.E., *Professor of Architectural Engineering and Acting Head of the Department of Architecture*

Frank Lincoln Stevens, Ph.D., *Professor of Plant Pathology*

Herbert Fisher Moore, B.S., M.M.E., *Research Professor of Engineering Materials*

John Lawrence Erb, F.A.G.O., *Director of the School of Music and University Organist*

Frederick Haynes Newell, B.S., D.Eng., *Professor of Civil Engineering and Head of the Department of Civil Engineering*

Kenneth McKenzie, Ph.D., *Professor of Romance Languages and Head of the Department of Romance Languages*

William Abbott Oldfather,[2] Ph.D., *Professor of the Classics*

John Driscoll Fitz-Gerald II, Ph.D., *Professor of Spanish*

Charles Alton Ellis, A.B., *Professor of Structural Engineering*

Louise Freer, B.S., *Director of Physical Training for Women*

Oscar Adolph Leutwiler, M.E., *Professor of Machine Design*

Arthur Stanley Pease, Ph.D., *Professor of the Classics and Curator of the Museum of Classical Art and Archeology*

Nathan Austin Weston, Ph.D., *Assistant Professor of Economics and Acting Dean of the College of Commerce and Business Administration*

Guy Montrose Whipple,[3] Ph.D., *Professor of Education*

Charles Zeleny, Ph.D., *Professor of Zoology*

Eliot Blackwelder, Ph.D., *Professor of Geology*

Albert Howe Lybyer, Ph.D., *Professor of History*

Richard Chace Tolman, Ph.D., *Professor of Physical Chemistry*

Ernest Bernbaum, Ph.D., *Professor of English*

Henry Winthrop Ballantine, A.B., LL.B., *Professor of Law and Dean of the College of Law*

Cullen Warner Parmelee, B.S., *Professor of Ceramic Engineering*

Fanny Cook Gates, Ph.D., *Dean of Women*

David Hobart Carnahan, Ph.D., *Professor of Romance Languages*

Alexander Dyer MacGillivray, Ph.D., *Professor of Systematic Entomology*

Charles Tobias Knipp, Ph.D., *Professor of Experimental Electricity*

Floyd Rowe Watson, Ph.D., *Professor of Experimental Physics*

Edward William McCaskey, Major U. S. Infantry, Retired, *Professor of Military Science and Tactics, and Commandant*

Werret Wallace Charters, Ph.D., *Professor of Education and Director of the School of Education*

Albert Ten Eyck Olmstead, Ph.D., *Professor of History and Curator of the Oriental Museum*

Arthur Cutts Willard, B.S., *Professor of Heating and Ventilation*

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[1] Deceased, December 30, 1917.
[2] On leave, second semester.
[3] On leave for military service, first semester.

ELMER ALLEN HOLBROOK,[1] B.S., E.M., *Professor of Mineral Preparation and Utilization*

ROBERT GRAHAM, D.V.M., *Professor of Animal Pathology*

JOHN MCBEATH SNODGRASS, B.S., *Assistant Professor of Railway Mechanical Engineering and Acting Head of the Department of Railway Engineering*

CHRISTIAN ALBAN RUCKMICH, Ph.D., *Assistant Professor of Psychology and Acting Head of the Department*

WILLIAM CHAUNCY LANGDON, A.M., *Lecturer on Community Drama and Master of the Pageant*

JOSEPH LINDSEY HENDERSON,[2] Ph.D., *Visiting Professor of Education*

DAVID SPENCE HILL, Ph.D., LL.D., *Visiting Professor of Education*

HOMER EDWARDS WOODBRIDGE, A.M., *Visiting Professor of English*

WILSON FORSYTH MONTFORT, A.M., *Acting Professor of Sanitary Chemistry*

JOHN ELBERT STOUT,[3] Ph.D., *Acting Professor of Secondary Education*

ASSOCIATE PROFESSORS

EDWARD FULTON,[4] Ph.D., *Associate Professor of Rhetoric*

GEORGE TOBIAS FLOM, Ph.D., *Associate Professor of Scandinavian*

ROBERT STEWART, Ph.D., *Associate Professor of Soil Fertility*

JAKOB KUNZ, Ph.D., *Associate Professor of Mathematical Physics*

THOMAS EDMUND SAVAGE, Ph.D., *Associate Professor of Stratigraphic Geology*

JAMES BYRNIE SHAW, D.Sc., *Associate Professor of Mathematics*

WILLIAM LEONIDAS BURLISON, Ph.D., *Associate Professor of Crop Production*

HOWARD VERNON CANTER, Ph.D., *Associate Professor of the Classics and Assistant Dean of the College of Liberal Arts and Sciences*

DAVID FORD MCFARLAND, Ph.D., *Associate Professor of Applied Chemistry*

HARRY GILBERT PAUL, Ph.D., *Associate Professor of English*

MELVIN LORENIUS ENGER, B.S., C.E., *Associate Professor of Theoretical and Applied Mechanics*

JOHN MABRY MATHEWS, Ph.D., *Associate Professor of Political Science*

LEWIS EMANUEL YOUNG,[5] B.S., E.M., Ph.D., *Associate Professor of Business Organization*

CHARLES MANFRED THOMPSON, Ph.D., *Associate Professor of Economics*

NATHANIEL CORTLANDT CURTIS, Ph.B., *Associate Professor of Architectural Design*

ASSISTANT PROFESSORS

EDWARD CHAUNCEY BALDWIN, Ph.D., *Assistant Professor of English*

NEIL CONWELL BROOKS, Ph.D., *Assistant Professor of German and Curator of the Museum of European Culture*

FRANCES SIMPSON, M.L., B.L.S., *Assistant Professor of Library Economy and Assistant Director of the Library School*

FRED HENRY RANKIN, B.S., *Assistant Professor and Superintendent of Agricultural Extension, Assistant to the Dean of the College of Agriculture*

EDWARD HARDENBERGH WALDO, A.B., M.S., M.E., *Assistant Professor of Electrical Engineering*

JUSTUS WATSON FOLSOM, D.Sc., *Assistant Professor of Entomology*

WILLIAM FREDERICK SCHULZ, E.E., Ph.D., *Assistant Professor of Physics*

WILLIAM SPENCE ROBERTSON, Ph.D., *Assistant Professor of History*

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[1] Resigned, November 1, 1917.

[2] First semester.

[3] Second semester.

[4] On leave.

[5] On leave for military service.

Charles Herschel Sisam, Ph.D., *Assistant Professor of Mathematics*

Simon Litman, Dr.Jur.Pub.et Rer.Cam., *Assistant Professor of Economics*

Arnold Emch, Ph.D., *Assistant Professor of Mathematics*

Herman Bernard Dorner, M.S., *Assistant Professor of Floriculture*

George Foss Schwartz, B.Mus., *Assistant Professor of Music*

Aretas Wilbur Nolan, A.B., M.S., *Assistant Professor of Agricultural Extension*

Franklin William Scott,[1] Ph.D., *Assistant Professor of English and Secretary of the Department of English*

Harrie Stuart Vedder Jones, Ph.D., *Assistant Professor of English*

Bethel Stewart Pickett, M.S., *Assistant Professor of Pomology*

John A Detlefsen, D.Sc., *Assistant Professor of Genetics*

Leonard Bloomfield, Ph.D., *Assistant Professor of Comparative Philology and German*

James Lloyd Edmonds, B.S., *Assistant Professor of Horse Husbandry*

Nelson William Hepburn, M.S., *Assistant Professor of Dairy Manufactures*

Harry Willard Miller,[2] M.E., *Assistant Professor of General Engineering Drawing*

Martin John Prucha, Ph.D., *Assistant Professor of Dairy Bacteriology*

Ralph Rodney Root, M.L.A., *Assistant Professor of Landscape Gardening*

Henry Perly Rusk, M.S., *Assistant Professor of Cattle Husbandry*

George McPhail Smith, Ph.D., *Assistant Professor of Chemistry*

James Elmo Smith, C.E., *Assistant Professor of Civil Engineering*

Percy Ash, B.S., C.E., *Assistant Professor of Architectural Design*

Wilbur M Wilson,[2] M.M.E., *Assistant Professor of Structural Engineering*

Victor Ernest Shelford, Ph.D., *Assistant Professor of Zoology*

Charles Ernest Carpenter, A.M., LL.B., *Assistant Professor of Law*

Robert Daniel Carmichael, Ph.D., *Assistant Professor of Mathematics*

Ernest Winfield Bailey, M.S., *Assistant Professor of Pomology*

Philip Sheridan Biegler, B.S., *Assistant Professor of Electrical Engineering*

Charles Richard Clark. B.S., M.Arch., *Assistant Professor of Architectural Construction*

George Nelson Coffey, Ph.D., *Assistant State Leader of County Advisers*

Axel Ferdinand Gustafson, M.S., *Assistant Professor of Soil Physics*

Walter Frederick Handschin, B.S., *Assistant Professor of Farm Organization and Management, State Leader of County Demonstration Work, and Acting Vice-Director of the Demonstration Service*

Albert Woodward Jamison, M.S., *Assistant Professor of Agricultural Extension*

Willis Appleford Slater,[2] M.S., C.E., *Research Assistant Professor of Applied Mechanics*

Ernest Van Alstine, B.S., *Assistant Professor of Agronomy*

Ruth Wheeler, Ph.D., *Assistant Professor of Household Science*

James Dater Bilsborrow, B.S., *Assistant State Leader of County Advisers*

Arthur Robert Crathorne, Ph.D., *Assistant Professor of Mathematics*

Ralph Kent Hursh, B.S., *Assistant Professor of Ceramic Engineering*

Earl Archibald White, Ph.D., *Assistant Professor of Farm Mechanics*

Clinton Mason Young, E.M., *Assistant Professor of Mining Research*

Jacob Zeitlin, Ph.D., *Assistant Professor of English*

Elisha Noel Fales,[2] A.B., B.S., *Assistant Professor of Aeronautics*

Roger Adams, Ph.D., *Assistant Professor of Chemistry*

Virgil R Fleming, B.S., *Assistant Professor of Theoretical and Applied Mechanics*

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[1] On leave, first semester.

[2] On leave for military service.

Ira William Fisk, M.S., *Assistant Professor of Electrical Engineering*
Clarence Stanley Sale, B.S., A.B., *Assistant Professor of Civil Engineering*
Charles Elmer Durst, M.S., *Assistant Professor of Olericulture*
Hiram Thomas Scovill, A.B., *Assistant Professor of Accountancy*
Albert Lemuel Whiting, Ph.D., *Assistant Professor of Soil Biology*
B Smith Hopkins, Ph.D., *Assistant Professor of Chemistry*
Howard Bishop Lewis, Ph.D., *Assistant Professor of Physiological Chemistry*
Arthur Charles Cole, Ph.D., *Assistant Professor of History*
Frederick Nobel Evans, A.B., M.L.A., *Assistant Professor of Landscape Gardening*
Walter Byron Gernert, Ph.D., *Assistant Professor of Plant Breeding*
Harvey Herbert Jordan, B.S., *Assistant Professor of General Engineering Drawing and Assistant Dean of the College of Engineering*
Fred B Seely, B.S., *Assistant Professor of Theoretical and Applied Mechanics*

ASSOCIATES

Arthur Romeyn Seymour, Ph.D., *Associate in Spanish and Adviser to Foreign Students*
Ernest Barnes Lytle, Ph.D., *Associate in Mathematics*
Daniel Otis Barto, B.S., *Associate in Animal Husbandry*
Elmer Howard Williams, Ph.D., *Associate in Physics*
Gustaf Eric Wahlin, Ph.D., *Associate in Mathematics*
Frederick Charles Bauer, B.S., *Associate in Soil Fertility*
Simeon James Bole, A.M., *Associate in Pomology*
Sleeter Bull, M.S., *Associate in Animal Nutrition*
Florence Rising Curtis, A.B., B.L.S., *Associate in Library Economy*
John Adlum Dent,[1] M.E., *Associate in Mechanical Engineering*
Neal Bryant Garver, C.E., *Associate in Civil Engineering*
Cora Emeline Gray, M.S., *Associate in Household Science*
Leonard Vaughan James, M.S., E.E., *Associate in Electrical Engineering*
Francis Marion Porter, M.S., *Associate in General Engineering Drawing*
Carroll Carson Wiley, C.E., *Associate in Civil Engineering*
George Denton Beal, Ph.D., *Associate in Chemistry*
Clarence Valentine Boyer, Ph.D., *Associate in English*
Herbert LeSourd Creek, Ph.D., *Associate in English*
Paul VanBrunt Jones, Ph.D., *Associate in History*
Theodore Calvin Pease,[1] Ph.D., *Associate in History*
Gertrude Schoepperle, Ph.D., *Associate in English*
Gilbert Gusler, B.S., *Associate in Animal Husbandry*
George Paul Boomsliter, B.S., *Associate in Theoretical and Applied Mechanics*
Newton Edward Ensign, A.B., B.S., *Associate in Theoretical and Applied Mechanics*
Harry Lovering Gill, *Associate in Track Athletics*
Joseph Eugene Gillet, Ph.D., *Associate in Comparative Literature*
Ray Stillman Hulce, M.S., *Associate in Milk Production*
Ralph Robert Jones, *Associate in Basketball*
Robert Taylor Jones, B.S., *Associate in Architecture*
Aubrey John Kempner, Ph.D., *Associate in Mathematics*
Abner Richard Knight, M.E., *Associate in Electrical Engineering*
Harold Hanson Mitchell, A.B., Ph.D., *Associate in Animal Nutrition*
Olin Harris Moore, Ph.D., *Associate in Romance Languages*
Maud Edna Parsons, A.B., *Associate in Household Science and Director of the Lunch Room*

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[1] On leave for military service.

HARRISON AUGUST RUEHE, B.S., *Associate in Dairy Manufactures*
WILLIAM HERSCHEL SMITH, M.S., *Associate in Animal Husbandry*
ROBERT CARL ZUPPKE, Ph.B., *Associate in Football*
HARRY FRANKLIN HARRINGTON, A.M., *Associate in English*
CHARLES EARL BRADBURY, B.P., *Associate in Art and Design*
ALFRED COPELAND CALLEN,[1] M.S., *Associate in Mining Engineering*
HAROLD NEWCOMB HILLEBRAND,[2] Ph.D., *Associate in English*
ROBERT EDWIN KENNEDY,[2] *Associate in Foundry Practise*
ALONZO PLUMSTED KRATZ, M.S., *Research Associate in Mechanical Engineering*
LORINDA PERRY, Ph.D., *Associate in Household Science*
WARREN ALBERT RUTH, A.M., *Associate in Chemistry in Horticulture*
JOEL ANDREW SPERRY, II,[2] Ph.D., *Associate in Bacteriology*
JAMES GARFIELD STEVENS, Ph.D., *Associate in Sociology*
HARLEY JONES VAN CLEAVE, Ph.D., *Associate in Zoology*
LUCILE WHEELER, Ph.D., *Associate in Household Science*
CHARLES ALLYN WILLIAMS, Ph.D., *Associate in German*
HORACE GROVE DEMING, Ph.D., *Associate in Chemistry*
RHODES ROBERTSON, M.Arch., *Associate in Architectural Design*
PAUL WILLIAM ALLEN, M.S., *Associate in Dairy Bacteriology*
HARRY WARREN ANDERSON, A.M., *Associate in Pomology*
JESSIE YEREANCE CANN, Ph.D., *Associate in Chemistry*
WILBUR JEROME CARMICHAEL, B.S., *Associate in Animal Husbandry*
HAROLD CLAYTON CASE, B.S., *Associate in Farm Organization and Management*
JOSEPH HARVEY CHECKLEY,[3] B.S., *Associate in Agricultural College Extension and Student Adviser*
RAYMOND EARL DAVIS, B.S., *Associate in Civil Engineering*
HAROLD HOUGHTON DUNN, M.S., *Research Associate in Railway Engineering*
DUANE TAYLOR ENGLIS, Ph.D., *Associate in Floricultural Chemistry*
ROY NEWTON FARGO, B.S., *Associate in Physical Training and Director of Men's Gymnasium*
FOREST ADDISON FISHER, B.S., *Associate in Soil Physics*
HARRY FREDERICK GODEKE, B.S., *Associate in Steam Engineering*
GUSTAVE ADOLPH GROS,[2] *Associate in Pattern Shop Management*
ALFRED JOSEPH GUNDERSON, B.S., *Associate in Pomology*
ARTHUR C HARPER, M.E., *Associate in Machine Design*
LEONA HOPE, *Associate in Household Science*
MARVIN EDWARD JAHR, A.B., *Associate in Farm Mechanics*
OLIVER KAMM, Ph.D., *Associate in Chemistry*
WALTER BYRON MCDOUGALL, Ph.D., *Associate in Botany*
HARRISON MCJOHNSON, A.M., *Associate in Business English and Salesmanship*
TELL WILLIAM NICOLET,[1] M.L.A., *Associate in Landscape Gardening*
GUSTAV H RADEBAUGH, *Associate in Machine Shop Management and Practise and Acting Director of Shop Laboratories*
WILLIAM HORACE RAYNER, B.S., *Associate in Civil Engineering*
JOHN LYON RICH, Ph.D., *Associate in Geology*
RUSSELL MCCULLOCH STORY,[3] A.M., *Associate in Political Science*
ROY HAROLD WILCOX,[3] B.S., *Associate in Animal Husbandry*
FRANK ARCHIBALD WYATT, Ph.D., *Associate in Soil Fertility*
JAMES D BREW, B.S., *Associate in Dairy Bacteriology*

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[1] Resigned.
[2] On leave for military service.
[3] On leave.

Philip Augustus Lehenbauer, Ph.D., *Associate in Plant Physiology*
Charles Weldon Tomlinson, Ph.D., *Associate in Geology*
Oliver Ralph Overman, Ph.D., *Associate in Dairy Chemistry*
Homero Seris, Ph.D., *Associate in Romance Languages*
Donald Mahaney Allison, A.B., *Associate in Architectural Design*
Carl Colvin, B.S., *Associate in Agricultural Education*

LECTURERS

Edna Lyman Scott, *Special Lecturer on Library Work for Children*
Robert Enoch Hieronymus, A.M., LL.D., *Community Adviser*
John Alford Stevenson, A.M., *Lecturer on Education*
James Michael O'Gorman, A.M., *Lecturer on Education*

INSTRUCTORS

Martha Jackson Kyle, A.M., *Instructor in English*
Daisy Luana Blaisdell, A.M., *Instructor in German*
Henri Jacobus van den Berg, *Instructor in Piano*
Edgar Thomas Lanham, *Instructor in Forge Shop*
Albert Austin Harding, B.Mus., *Instructor in Wind Instruments and Director of the University Military Band*
Mary Minerva Wetmore, *Instructor in Art and Design*
Armin Hajman Koller, Ph.D., *Instructor in German*
Edward Wilson Chittenden, Ph.D., *Instructor in Mathematics*
Edson Wilfred Morphy, *Instructor in Violin*
Edna Almeda Treat, B.Mus., *Instructor in Piano*
Ethel Bond, A.B., B.L.S., *Instructor in Library Economy and Assistant in Charge of the Collections in Library Economy*
Edwin John Manley, *Instructor in Swimming*
Heber Dignam Nasmyth, *Instructor in Voice*
Clarissa Rinaker, Ph.D., *Instructor in English*
Mervin James Curl, A.M., *Instructor in English*
Easley Stephen Jones, A.M., *Instructor in English*
Queen Lois Shepherd, Ph.D., *Instructor in Philosophy*
Rufus Crane, A.B., B.S., *Instructor in General Engineering Drawing*
Verna Brooks, A.B., *Instructor in Physical Training for Women*
Georgia Elizabeth Fleming, B.S., *Instructor in Textiles*
Stella Mary Hague, Ph.D., *Instructor in Botany*
Roger Sherman Loomis, B.Lit., A.M., *Instructor in English*
Arthur Grenville Eldredge, *Instructor in Photography and Director of the Photographic Laboratories*
Robert Douglas Glasgow, Ph.D., *Instructor in Entomology*
Mamie Bunch, A.B., *Instructor in Household Science, State Leader in Home Economics Extension*
Robert Calvin Whitford, A.M., *Instructor in English*
Ralph Stanlee Fanning, M.S., *Instructor in Architectural Design*
William Sidney Wolfe, M.S., *Instructor in Architectural Engineering*
James Burton Andrews, B.S., *Instructor in Animal Husbandry*
William James Putnam, B.S., *Instructor in Theoretical and Applied Mechanics*
Elmer Roberts, B.S., *Instructor in Genetics*
James Harvey Hogue, *Instructor in Foundry Practise*
Carl Rahn, Ph.D., *Instructor in Psychology*
Robert Eugene Cushman, Ph.D., *Instructor in Political Science*

William Sanford Brock, B.S., *Instructor in Pomology*
Jeremiah Amos DeTurk,[1] B.S., *Instructor in Machine Shop Practise*
Lemuel Cross Dillenback,[1] A.M., *Instructor in Architectural Design*
Gideon Robert Forbes, B.S., M.L.A., *Instructor in Art and Design*
James Henry Greene, M.S., *State Leader in Junior Extension*
Allene Gregory, Ph.D., *Instructor in English*
Anna Lue Hughitt, *Instructor in Physical Training for Women*
Heinrich Waldemar Nordmeyer, Ph.D., *Instructor in German*
Charles Leslie Stewart, Ph.D., *Instructor in Economics*
William Wodin Yapp, B.S., *Instructor in Dairy Husbandry*
Edna Mosher, Ph.D., *Instructor in Entomology*
Ananias Charles Littleton, A.B., *Instructor in Accountancy*
Frank Tatham Johnson, *Instructor in Voice*
Maybelle Genevieve Wright, B.Mus., *Instructor in Music*
Harry Torsey Baker, A.M., *Instructor in English*
William Everett Britton, A.M., J.D., *Instructor in Business Law*
Oscar Friedrich Wilhelm Fernsemer,[2] Ph.D., *Instructor in German*
Merlin Harold Hunter, Ph.D., *Instructor in Economics*
Harry Charles Gilkerson, B.S., *Instructor in Soil Fertility*
Henry Elmer Hoagland,[2] Ph.D., *Instructor in Economics*
Lyman Morse Kells, Ph.D., *Instructor in Mathematics*
Charles LeDeuc, LL.B., Ph.D., *Instructor in Accountancy*
Cyrus Edmund Palmer, M.S., *Instructor in Architectural Engineering*
Maximilian Josef Rudwin, Ph.D., *Instructor in German*
Lew R Sarett, A.B., LL.B., *Instructor in English*
Warren Rippey Schoonover,[1] M.S., *Instructor in Soil Fertility*
Howard John Snider, B.S., *Instructor in Soil Fertility*
Owen James Trainor Southwell, A.B., *Instructor in Architectural Design*
Sabra Wilbur Vought, B.L.S., *Instructor in Library Economy*
Edward Harvey Walworth, B.S., *Instructor in Crop Production*
Robert Bruce Weirick, A.M., *Instructor in English*
Olga Edith Leaman, *Instructor in Music*
John Rogers Musselman,[2] Ph.D., *Instructor in Mathematics*
Harold Malcolm Westergaard, Ph.D., *Instructor in Theoretical and Applied Mechanics*
Herbert E Eastlack, Ph.D., *Instructor in Chemistry*
Lloyd Morey, A.B., B.Mus., C.P.A., *Instructor in Accountancy*
Frank Erwin Richart, A.M., *Instructor in Theoretical and Applied Mechanics*
Frederick Osban Anderegg, Ph.D., *Instructor in Chemistry*
Viola Jennie Anderson, M.S., *Instructor in Household Science*
Nellie Eileen Bussell, A.B., *Instructor in Physical Training*
Edward Earle Swinney, A.B., *Instructor in Public School Music*
Leo Starr Baldwin, B.S., *Instructor in General Engineering Drawing*
Fred Wilbur Tanner, Ph.D., *Instructor in Bacteriology*
Emerson Grant Sutcliffe, A.M., *Instructor in English*
Earl Kirkwood Augustus, B.S., *Instructor in Animal Husbandry*
Merton Ford Banks,[2] B.S., *Instructor in General Engineering Drawing*
Fannie Maria Brooks, A.B., *Instructor in Home Economics Demonstration*
Howard Dexter Brown, B.S., *Instructor in Olericulture*
Arthur Samuel Colby, B.S., *Instructor in Pomology*

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[1] On leave for military service.
[2] Resigned.

Claude Harper, B.S., *Instructor in Animal Husbandry*
Harry Cleveland Kremers, M.S., *Instructor in Chemistry*
J Earll Miller, LL.B., Ph.D., *Instructor in History*
Naomi Olive Newburn, A.B., *Instructor in Home Economics Extension*
Edward Fritchoff Torgelson, B.S., *Instructor in Soil Physics*
Leighton J True, B.S , *Instructor in Dairy Manufactures*
Earle Horace Warner, A.M., *Instructor in Physics*
James Wilbur Whisenand, B.S., *Instructor in Animal Husbandry*
John Van Horne, Ph.D., *Instructor in Romance Languages*
Silas Alonzo Braley, Ph.D., *Instructor in Chemistry*
Florence Helen Churton, B.S., *Instructor in Household Science*
John Gerhard Dietrichson, Ph.D., *Instructor in Chemistry*
Ernest Carroll Faust, Ph.D., *Instructor in Zoology*
Roy Hansen, B.S., *Instructor in Soil Biology*
Sebastian Karrer, A.M., *Instructor in Physics*
William H Severns, M.S., *Instructor in Mechanical Engineering*
Sarah Augusta Sutherland, B.S., *Instructor in Household Science*
Walter Eugene Thrun, Ph.D., *Instructor in Chemistry*
H Foley Tuttle, M.S., *Instructor in Soil Physics*
Gordon Watkins, A.M., *Instructor in Economics*
Camillo Weiss, M.S., *Instructor in Structural Engineering*
Carl John Engelder,[1] Ph.D., *Instructor in Chemistry*
Ernest Alexander Reid, M.S., *Instructor in Electrical Engineering*
Eugene Francis Simonds, Ph.D., *Instructor in Mathematics*
Elmer Dershem, Ph.D., *Instructor in Astronomy*
James Troy Peterkin, B.S., *Instructor in Freehand Drawing*
Arnold George Scheele, A.M., *Instructor in Freehand Drawing*
William Joseph Bingen, C.E., *Instructor in General Engineering Drawing*
Orsel Edwin Robey, *Instructor in Household Engineering Extension*
Ray Walter Arms, E.M., *Instructor in Mining Engineering*
William Frank McCaughey, A.B., *Instructor in Architectural Design*
George Burr McMillen, A.B., *Instructor in Railway Administration*
Charles Lyman Ellis, A.B., *Instructor in General Engineering Drawing*
John Grennan, *Instructor in Foundry Practise and Management*
Chauncey Stevens Hill, B.S., *Instructor in Landscape Gardening*
James Elijah McAtee, Ph.D., *Instructor in Mathematics*
Rosalie Mary Parr, Ph.D., *Instructor in Chemistry*
John E Seabright, *Instructor in Ceramic Engineering*

ASSISTANTS

James Merion Duncan, *Assistant in Pattern Making*
Ruth Kelso, A.M., *Assistant in English*
Elizabeth Parnham Brush, A.M., *Assistant in History*
Peter Joseph Rebman, *Assistant in Forge Shop*
John Alexander Frisk, *Assistant in Mechanical Engineering and Mechanician in the Mechanical Engineering Laboratory*
Rosa Lee Gaut,[1] B.Mus., *Assistant in Physical Training for Women*
Benjamin Lester Bowling, *Assistant in the Highway Laboratory*
Charles Serophin Carry, *Assistant in Romance Languages*
Harrison Fred Theodore Fahrnkopf, B.S., *Assistant in Soil Fertiltiy*
Alma Jessie Neill, A.M., *Assistant in Physiology*

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[1] Resigned.

Scott Champlin Taylor,[1] B.S., *Assistant in Chemistry*
Paul Anders, *Assistant in Glass Blowing*
Clyde Byron Beck, A.M., *Assistant in English*
Nora Elizabeth Dalbey, A.M., *Assistant in Botany*
William Henry Dreesen, A.B., *Assistant in Economics and Commerce*
Forrest Ellwood Kempton, M.S., *Assistant in Botany*
Charles Francis Hill, A.M., *Assistant in Physics*
Lee Ellis Miles,[1] A.B., *Assistant in Floriculture*
James Manley Phelps, A.B., *Assistant in English*
Rafael Arcangel Soto, A.M., *Assistant in Romance Languages*
Raymond Franklin Borden, A.M., *Assistant in Mathematics*
Joseph Marvin Braham, M.S., *Research Assistant in Chemistry*
Beatrice Virginia Copley, A.M., *Assistant in English*
Frank Farnsworth Footitt, M.S., *Assistant in Chemistry*
Jay Thomas Ford, M.S., *Assistant in Chemistry*
Luther Eugene Kennedy, A.M., *Assistant in Geology*
Caroline Ruth Morris, A.B., *Assistant in Physical Training for Women*
Olive Belle Percival, B.S., *Assistant in Home Economics Extension*
William Eugene Pickler, A.B., *Assistant in Botany*
John Benjamin Rice, B.S., *Assistant in Animal Husbandry*
Floyd Elba Rowland, B.S., A.M., *Assistant in Chemistry*
John Raymond Shulters, A.M., *Assistant in Romance Languages*
Ralph Waldo Tippet, A.M., *Assistant in Chemistry*
William Alexander Van Winkle, M.S., *Assistant in Chemistry*
Carl Eli Pike, B.S., *Assistant in Physics*
Harry James Beattie,[1] A.M., *Assistant in Chemistry*
Samuel E Bilik,[1] D.N., *Assistant in Athletic Training*
Washington Irving Brockson, M.S., *Assistant in Crop Production*
Herbert Knight Dennis, A.M., *Assistant in Sociology*
Henry Carl Eckstein, B.S., *Assistant in Animal Nutrition*
Richard Alonzo Gantz, A.B., *Assistant in Botany*
Walter Arthur Gatward, M.S., *Research Assistant in Electrical Engineering*
Harrison Frederick Gonnerman, M.S., *Research Assistant in Theoretical and Applied Mechanics*
Coleman Roberts Griffith, A.B., *Assistant in Psychology*
Cecil Robert Gross, B.S., *Assistant in Bacteriology*
Chester Clyde Harbison, B.E., A.B., *Assistant in English*
John Frederick Gross Hicks, B.S.. *Assistant in Chemistry*
Joseph Krafka, Jr., A.M., *Research Assistant in Zoology*
Paul Nissley Landis, A.M., *Assistant in English*
Manuel Leon Lopez, A.B., *Assistant in Romance Languages*
George Hillis Newlove,[1] A.M., *Assistant in Accountancy*
Katherine Hill Paul, *Scientific Artist in Zoology*
Alfred Richard Powell, A.M., *Assistant in Chemistry*
Chris Simeon Rhode, B.S., *Assistant in Dairy Husbandry*
Clarence Hudson Richardson, B.S., *Assistant in Mathematics*
Ralph Emerson Rindfuss, A.M., *Assistant in Chemistry*
Ray Iris Shawl, B.S., *Assistant in Farm Mechanics*
Charles Stockman Spooner, A.B., *Assistant in Entomology*
Gerald Darfield Stopp,[1] A.B., *Assistant in English*

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[1] Resigned.

PARK POWELL, B.S., *Assistant in Romance Languages*
TRUMAN GEORGE YUNCKER, A.M., *Assistant in Botany*
LLOYD BRELSFORD HOWELL,[1] M.S., *Assistant in Chemistry*
WARREN KENNETH LAYTON,[2] A.M., *Assistant in Education*
LANSING SANDLER WELLS, A.B., *Assistant in Chemistry*
EDWARD GEORGE LAUTERBACH, M.S., *Assistant in Floriculture*
MARY EMMA RENICH, A.M., *Assistant in Botany*
PEDRO BACH Y RITA, Maestro Superior, *Assistant in Romance Languages*
RUSSELL STARKEY BRACEWELL, A.B., *Assistant in Dairy Chemistry*
ARTHUR BLAINE HAW, *Research Assistant in Chemistry*
BERNHARD ALEXANDER UHLENDORF, A.M., *Assistant in German*
JOHN BERNIS BROWN, B.S., *Assistant in Chemistry*
JESSE RAY CHRISTIE, B.S., *Assistant in Zoology*
HERBERT EPHRAIM FRENCH, A.B., *Assistant in Chemistry*
RALPH WILLIAM HUFFORD, A.B., *Assistant in Chemistry*
WILLIAM LIONEL MCCLURE, A.B., *Assistant in Chemistry*
CARL SHIPP MARVEL, A.M., *Assistant in Chemical Manufactures*
MINER MANLY AUSTIN, A.B., *Assistant in Chemistry*
SARGENT GASTMAN POWELL, M.S., *Assistant in Chemistry*
LYNNE HERMAN ULICH, B.S., *Assistant in Chemistry*
LEONARD FRANCIS YNTEMA, A.B., *Assistant in Chemistry*
WILLIAM EDWIN ALLEY, *Assistant in Mechanical Engineering*
MRS. JOSEPHINE KERR ALLISON, M.S., *Assistant in Household Science*
WORTH ARTHUR ALLISON, A.B., M.S., *Assistant in Animal Husbandry*
EDWIN ANDERS, A.B., *Assistant in Political Science*
RICHARD ASHMAN, B.Lit., *Assistant in Physiology*
JAMES CURTIS AUSTIN, A.B., *Assistant in Classics*
GERALD CLIFFORD BAKER, A.B., *Research Assistant in Sanitary Chemistry*
MURRAY REED BENEDICT, B.S., *Assistant in Dairy Husbandry*
ELISA CURTIS, *Assistant in Romance Languages*
HARRY WARREN DAY, B.S., *Assistant in Olericulture*
VINCENT STEPHEN DAY, B.S., *Assistant and Draftsman in Mechanical Engineering*
GEORGE HARLAN DUNGAN, *Assistant in Crop Production*
MAX SHAW DUNN, A.B., *Assistant in Chemistry*
WILLIAM EDMUND EDINGTON,[1] A.B., *Assistant in Mathematics*
SOLTON ENGEL, A.B., *Assistant in English*
EDNA FLEXER, *Assistant in Household Science*
HOBART DICKINSON FRARY,[1] M.E., M.S., *Assistant in Mathematics*
EDWIN COULTHARD FRITTS, B.S., *Assistant in Physics*
PEARL FOREST GROVE, A.B., *Assistant in Botany*
FLORENCE SANDER HAGUE, A.M., *Assistant in Zoology*
STANLEY WILLIAM HALL, B.S., *Assistant in Floriculture*
THOMAS SHERMAN HAMILTON,[1] B.S., *Assistant in Animal Nutrition*
EZRA CLARENCE HARRAH, A.B., *Research Assistant in Zoology*
JAMES BRUCE HENDERSON,[1] M.S., *Assistant in Animal Husbandry*
OLIVE DEANE HORMEL, A.B., *Assistant in English*
ANDREW FRANKLIN HUNSAKER, A.M., *Assistant in Economics*
WALTER PAVY JAMES, B.S., *Assistant in Pomology*
WALTER WILSON JENNINGS, A.M., *Assistant in Economics*
AARON RAYMOND KIENHOLZ, B.S., *Research Assistant in Botany*

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[1] Resigned.
[2] On leave for military service.

Arthur William Larsen,[1] A.M., *Assistant in Mathematics*
Earl Emanuel Libman, B.S., *Assistant in Ceramic Engineering*
Ruth Evelyn Merling, M.S., *Assistant in Chemistry*
Hubert Watson Moor, B.S., *Assistant in Chemical Manufactures*
Fred I Myers,[1] A.M., *Assistant in English*
Myron Arthur Myers, B.S., *Assistant in Psychology*
John Tilden Nuttall, M.S., *Assistant in Chemistry*
John Pieper, M.S., *Assistant in Crop Production*
James Henry Platt, B.M.E., *Assistant in Machine Design*
Alva LeRoy Prickett, A.B., *Assistant in Economics*
Daniel Paul Quiring, A.B., *Assistant in Zoology*
Orlan Bertrand Read, A.M., *Assistant in Chemistry*
Ralph Daniel Reed, B.S., *Assistant in Geology*
Lewis Bradford Ripley, M.S., *Assistant in Entomology*
Alta Gwinn Saunders, A.M., *Assistant in English*
Arthur James Schuettner, E.G., *Assistant in Physical Training*
Eleanor Frances Seiler, A.M., *Assistant in Physics*
Wilma Loy Shelton, A.B., *Reviser in the Library School*
Clara Mabel Smith, A.B., *Assistant in Education*
Allen Edwin Stearn, M.S., *Research Assistant in Chemistry*
Bird Richard Stephenson, A.M., *Assistant in Physics*
Jessie May Toland, A.B., *Assistant in English*
Stephen Albert Walser,[1] B.S., *Assistant in Bacteriology*
Jane Watson, A.M., *Assistant in Romance Languages*
Mabel Wilkerson, Ph.B., *Assistant in Home Economics*
Lewis Ward Williams, Ph.B., *Assistant in Education*
Roscoe Woods, A.M., *Assistant in Mathematics*
Agnes Wright, A.B., *Research Assistant in Illinois Historical Survey*
Lyda Bond, B.S., *Assistant in Household Science*
Marjorie Louise Walker, A.B., *Assistant in English*
Irma Ada Latzer, A.M., *Assistant in Household Science*
Ennes Charles Rayson, A.B., *Assistant in Accountancy*
Manson James Bradley, A.M., *Assistant in Chemistry*
William Courtney Wilson, B.S., *Assistant in Chemistry*
David Madison Bullock, *Assistant in Athletic Training*
Ruth Scovell Funk, A.B., *Assistant in Bacteriology*
Byne Frances Goodman, A.M., *Assistant in History*
Gladys Lovewell, *Assistant in Physical Training for Women*
Clinton B Olney, D.V.M., *Assistant in Animal Pathology*
Leonard L Steimley, *Assistant in Mathematics*
Roger Frank Little, A.B., LL.B., *Assistant in Business Law*
Herbert Staffen Henrichs, B.S., *Assistant in Farm Mechanics*

GRADUATE ASSISTANTS

Gertrude Mellen Hooper, A.B., *Graduate Assistant in Zoology*
Isaac Hohn Godlove, A.M., *Graduate Assistant in Chemistry*
Otis Avery Barnes, B.S., *Graduate Assistant in Chemistry*
Rossleene Merle Arnold, A.B., *Graduate Assistant in Chemistry*
Lloyd Blackwell Dickey, A.M., *Graduate Assistant in Zoology*
Ivar Nimes Hultman,[1] B.S., *Graduate Assistant in Chemistry*
Henry Edward Schradeick, B.S., *Graduate Assistant in Zoology*

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[1] Resigned.

Martin Josiah McHenry, M.S., *Graduate Assistant in Chemistry*
Herman Lebeson, M.S., *Graduate Assistant in Chemistry*
Eugene Philip Fager, A.B., *Graduate Assistant in Chemistry*
Alfred Owen Phillips, B.S., *Graduate Assistant in Chemistry*
George Hopkins Coleman, B.S., *Graduate Assistant in Chemistry*
Owen Vernon Shaffer, B.S., *Graduate Assistant in Chemistry*
Edwin R Spencer, A.M., *Graduate Assistant in Botany*
Lester Carlton VerNooy, A.B., *Graduate Assistant in Zoology*
Ralph Percy Schelly,[1] B.S., *Graduate Assistant in Chemistry*
Doris E Bockius, B.S., *Graduate Assistant in Chemistry*
Ernest Edward Charlton, M.S., *Research Graduate Assistant in Chemistry*
Archibald Christian Knauss, B.S., *Research Graduate Assistant in Theoretical and Applied Mechanics*
William Riga Lyon, B.S., *Research Graduate Assistant in Electrical Engineering*
Frank Gustave Wahlen, B.S., *Research Graduate Assistant in Mechanical Engineering*
Terrence Onas Westhafer, M.S., *Research Graduate Assistant in Chemistry*
James Rufus Watkins, B.C.E., *Research Graduate Assistant in Theoretical and Applied Mechanics*
Charles Stanley Greenbaum, A.B., *Research Graduate Assistant in Ceramic Engineering*

STUDENT ASSISTANTS

Norris Onslow Taylor, *Student Assistant in Chemistry*
Eunice Louise Badger, *Student Assistant in Physical Training*
Isadore Morton, *Student Assistant in Chemistry*
Robert Harvey Dawson,[1] *Student Assistant in Chemistry*
Neulon Deahl, *Student Assistant in Chemistry*
Walter Raymond Kirner, *Student Assistant in Chemistry*
Frances Janet Perkins, *Student Assistant in Psychology*
Harry Sterling Snell, *Student Assistant in Chemistry*
Elmer Bennett Vliet,[1] *Student Assistant in Chemistry*
Donald B Littrell, *Student Assistant in General Engineering Drawing*

ASSISTANTS IN MILITARY SCIENCE

Charles Fairman, *Assistant in Military Science*
Frederick Caspar Kalthoff, *Assistant in Military Science*
Erwin Risley Brigham, *Assistant in Military Science*
Victor Hubert Grossberg, *Assistant in Military Science*
Leland Edward Yeager, *Assistant in Military Science*
Norris Onslow Taylor, *Assistant in Military Science*
Louis Henry Schreiber, *Assistant in Military Science*
Floyd Edward Lundgren, *Assistant in Military Science*
Clarence Eastlake Snell, *Assistant in Military Science*
Edwin Elwood Newcomb, *Assistant in Military Science*
Jacob Paul Schnellbacher, *Assistant in Military Science*
Charles Franklin Mercer, *Assistant in Military Science*
Alfred Hammond Morton, *Assistant in Military Science*
Harold Bruce Whitney, *Assistant in Military Science*
Sidney Briggs Trelease, *Assistant in Military Science*
Amos Holston Watts, *Assistant in Military Science*
Austin Harold Reed Fischer, *Assistant in Military Science*

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[1] Resigned.

THE UNIVERSITY LIBRARY

STAFF

Phineas Lawrence Windsor, Ph.B., *Director of the Library and the Library School*
Jessie Beatrice Weston,[1] Ph.B., B.L.S., *General Assistant*
Everett Orren Fontaine, A.B., *General Assistant*

Order Department—

- Francis Keese Wynkoop Drury, A.M., B.L.S., *Assistant Librarian*
- Miles Oscar Price, B.S., *Exchange Assistant*
- Aurella Knapp, A.B., B.L.S., *Order Assistant (Periodicals)*
- Clara Agnes Ricketts, A.B., B.L.S., *Order Assistant*
- Katherine Adele Doyle, *Order Assistant*
- Clara Mae Barnes, *Order Assistant*
- Elizabeth Hester,[1] *Order Assistant*

Loan Department—

- Emma Reed Jutton, B.L.S., *Loan Librarian*
- Sarah Elizabeth Bryan, A.B., B.L.S., *Loan Assistant*
- Stella Belle Galpin, A.B., B.L.S., *Loan Assistant*
- Susan Benson-Howard, A.B., B.L.S., *Loan Assistant*
- Vera K Gher, *Loan Assistant*

Binding Department—

- Josie Batcheller Houchens, A.M., B.L.S., *Binding Librarian*
- Della Grace Cordell,[1] *Binding Assistant*

Catalog Department—

- Adah Patton, B.L.S., *Catalog Librarian*
- Jane Adah Craig, A.B., B.L.S., *Reviser*
- Nellie Mabel Robertson, A.B., B.L.S., *Catalog Assistant*
- Amanda Moore Flattery, A.M., *Catalog Assistant*
- Nelle Marie Signor, A.B., B.L.S., *Catalog Assistant*
- Lillie Cilley, A.B., B.L.S., *Catalog Assistant*
- Cena Sprague, A.B., B.L.S., *Catalog Assistant*
- Katherine Leslie McGraw, A.B., *Catalog Assistant*
- Mildred McElroy,[1] A.B., *Catalog Assistant*
- Cleo Lichtenberger, B.S., *Catalog Assistant*
- Nelle Uree Branch, A.B., B.L.S., *Catalog Assistant*
- Gladys Nichols, A.B., *Catalog Assistant*
- Mary Gladys Burwash, A.B., B.L.S., *Catalog Assistant*
- Alice Agnes Thompson,[1] *Catalog Assistant*
- Mary Grace Barnes, B.S., *Catalog Assistant*
- Dorothy Elizabeth Cook, A.B., *Catalog Assistant*
- Sallie McCormick Vaught, A.B., *Catalog Assistant*
- Dorothy L Cuthbert, A.B., *Catalog Assistant*
- Elizabeth S Laidlaw, A.B., *Catalog Assistant*

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[1] Resigned.

Reference Department—

- Margaret Hutchins, A.B., B.L.S., *Reference Assistant*
- Alice Sarah Johnson, A.B., B.L.S., *Reference Assistant*
- Emma Felsenthal, Ph.B., B.L.S., *Reference Assistant*
- Margaret Stuart Williams, A.B., B.L.S., *Reference Assistant*

Departmental Libraries—

- Hazel Yearsley Shaw, A.M., *Assistant in Economics and Sociology*
- Ola May Wyeth, A.B., B.L.S., *Assistant in Germanic and Romance Languages*
- Marian Leatherman, A.B., B.L.S., *Assistant in History and Political Science*
- Nellie Read Roberts, A.B., B.L.S., *Assistant in English*
- Harry Amsterdam, A.M., *Assistant in Philosophy, Psychology, and Education*
- Ethel Bond, A.B., B.L.S., *Assistant in Library Economy*
- Charles Edwin Janvrin, Ph.B., B.L.S., *Assistant in Natural History*
- Winifred Fehrenkamp, B.L.S., *Assistant in Architecture*
- George Adams Deveneau, Ph.B., *Assistant in Agriculture*
- Marion E Sparks, A.M., B.L.S., *Assistant in Chemistry*
- Elsie Louise Baechtold, A.B., B.L.S., *Assistant in Engineering*
- Adolph Pauli, A.M., *Assistant in Classics*

THE COLLEGE OF MEDICINE

(Congress and Honore Streets, Chicago)

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HENRY TURMAN BYFORD, A.M.. M.D., *Professor of Gynecology*, Emeritus
OSCAR AUGUSTUS KING, M.D., *Professor of Neurology and Psychiatry*, Emeritus
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DANIEL ATKINSON KING STEELE, M.D., LL.D., *Professor of Surgery*, Emeritus
CASEY A WOOD, A.M., M.D., *Professor of Ophthalmology*, Emeritus
ADOLPH GEHRMANN, M.D., *Professor of Hygiene*, Emeritus
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Maurice Lewison, M.D., *Assistant Professor of Physical Diagnosis*
John Michael Lang, M.D., *Assistant Professor of Clinical Gynecology*
Frederick George Dyas, M.D., *Assistant Professor of Surgery and Clinical Surgery*
George Farnsworth Thompson, B.S., M.D., *Assistant Professor of Surgery and Clinical Surgery*
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Arthur Richard Elliott, M.D., *Assistant Professor of Medicine*

ASSOCIATES

Josiah John Moore, M.S., M.D., *Associate in Experimental Medicine*
Ernest Sisson Moore, Ph.B., M.D., *Associate in Clinical Medicine*
John A Cavanaugh, M.D., *Associate in Surgery (Laryngology, Rhinology, and Otology)*
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John Ross Harger, B.S., M.D., *Associate in Surgery and Minor Surgery*
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J Lucien Morris, Ph.D., *Associate in Physiological Chemistry*
Frank Chauvet, M.D., *Associate in Physical Diagnosis*
Henry Eugene Irish, M.D., *Associate in Pediatrics*
Philip Frank Shaffner, M.D., *Associate in Dermatology*
Edward Kent Armstrong, M.D., *Associate in Pediatrics*
Maurice Lamm Blatt, M.D., *Associate in Pediatrics*
Charles H Manlove, Jr. M.D., *Associate in Pathology and Bacteriology*

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Matthew Mills, LL.B., *Alternate Lecturer on Medical Jurisprudence*
Bernard John Cigrand, M.S., D.D.S., *Lecturer on History of Medicine*

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Robert William Morris, A.B., M.D., *Instructor in Medicine*
Charles Herbert Phifer, M.D., *Instructor in Surgery*

George John Lorch, Ph.G., M.D., *Instructor in Medicine*
Egan Walter Fischmann, M.D., *Instructor in Gynecology*
Annie Esther Barron-Harrison, M.D., *Instructor in Obstetrics*
Albert John Schoenberg, M.D., *Instructor in Gynecology*
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Henry Lester Baker, M.D., *Instructor in Surgery*
Waldemar Eberhardt, B.S., M.D., *Instructor in Medicine*
Adolph Hartung, M.D., *Instructor in Roentgenology*
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Walter Bradford Metcalf, M.D., *Instructor in Clinical Medicine*
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Richard Charles Steffen, M.D., *Instructor in Obstetrics*
Arrie Bamberger, M.D., *Instructor in Minor Surgery*
John William Birk, M.D., *Instructor in Obstetrics*
Walter Charles Hammond, M.D., *Instructor in Obstetrics*
Archie James Graham, M.D., *Instructor in Surgery* (*Operative*)
Edward M Heacock, M.D., *Instructor in Obstetrics*
Eugene Birmingham, M.D., *Instructor in Surgery* (*Laryngology, Rhinology, and Otology*)
Fred Raymond Crooks, M.D., *Instructor in Medicine*
Frederick Howard Falls, M.S., M.D., *Instructor in Obstetrics and Pathology*
Thomas Smith Jones, B.F.A., *Artist in the Department of Anatomy*
Oscar Eugene Nadeau, B.S., M.D., *Instructor in Surgery*
Franklin S Wilson, M.D., *Instructor in Clinical Medicine*
Harry Culver, B.S., M.D., *Instructor in Pathology and Surgery* (*Genito-Urinary*)
Robert Ludwick Furby, M.D., *Instructor in Medicine*
Edward Francis Garraghan, M.D., *Instructor in Laryngology, Rhinology, and Otology*
John Charles Mathew Krasa, M.D., *Instructor in Medicine*
Abraham Levinson, M.D., *Instructor in Pediatrics*
Walter Henry Theobold, B.S., M.D., *Instructor in Surgery* (*Laryngology, Rhinology, and Otology*)
Lester Edward Bower, M.D., *Instructor in Pediatrics*
Laurence Hampson Mayers, M.D., *Instructor in Clinical Medicine*
John Patrick O'Neil, M.D., *Instructor in Surgery* (*Genito-Urinary*)
Frank Lee Stone, M.D., *Instructor in Clinical Gynecology*
Karl Albert Meyer, M.D., *Instructor in Clinical Surgery*
Francis Eugene Senear, A.B., M.D., *Instructor in Dermatology*
Edward F Slavik, M.D., *Instructor in Surgery* (*Laryngology, Rhinology, and Otology*)
Howard E Curl,[1] A.B., M.D., *Instructor in Physiology*
Arthur Reuben Cooper, Ph.D., *Instructor in Anatomy*
Thomas Byrd Magath, Ph.D., *Instructor in Anatomy*
John Wood MacArthur, A.M., *Instructor in Anatomy*
James Hubert Skiles, A.B., M.D., *Instructor in Obstetrics*
Wesley John Woolston, M.D., *Instructor in Gynecology*
Andy M Carr, A.B., M.D., *Instructor in Ophthalmology*
Francis J Conroy, M.D., *Instructor in Surgery* (*Laryngology, Rhinology, and Otology*)

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[1] Resigned.

Willard Cameron Shepard, *Artist*
Max Biesenthal, M.D., *Instructor in Medicine*
Nellie Frain, *Artist*

ASSISTANTS

George Washington Post, Jr., B.S., A.M., M.D., *Assistant in Clinical Surgery*
Robert Emmett Flannery, M.D., *Assistant in Clinical Surgery*
Max Meyerovitz, M.D., *Assistant in Clinical Surgery*
Mathilda Osborn Lichner, B.S., M.D., *Assistant in Gynecology*
James Tobias Groot, *Assistant in Physiology*
Clarence James McMullen, M.D., *Assistant in Medicine*
James Joseph Leach, M.D., *Assistant in Pediatrics*
Conrad George Appelle, M.D., *Assistant in Pediatrics*
Edwin Judge Barnett, M.D., *Assistant in Pediatrics*
Lee A Juhnke, M.D., *Assistant in Gynecology*
Lyndon Harris, M.D., *Assistant in Clinical Surgery*
Benjamin Lee Eicher, Ph.B., Ph.C., *Assistant in Pharmacy*
Albert Vander Kloot, M.D., *Assistant in Medicine*

STUDENT ASSISTANTS

Josephine Kennedy, A.B., *Student Assistant in Physiological Chemistry*
Hubbard Prather Saunders, A.B., *Student Assistant in Physiology*
Viggo Jensen, A.B., *Graduate Assistant in Pharmacology*
Seymour J Cohn, M.S., *Graduate Assistant in Pharmacology*
Emry G Hyatt, *Student Assistant in Pharmacology*

THE COLLEGE OF DENTISTRY

(Harrison and Honore Streets, Chicago)

FACULTY

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FREDERICK BROWN MOOREHEAD, M.S., D.D.S., M.D., *Professor of Oral Surgery, Oral Pathology, and Bacteriology, and Dean of the College*

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GEORGE WALTER DITTMAR, D.D.S., *Professor of Prosthetic Dentistry and Prosthetic Technics*

FREDERICK BOGUE NOYES, B.S., D.D.S., *Professor of Orthodontia and Histology and Secretary of the Faculty*

EDGAR DAVID COOLIDGE, D.D.S., *Professor of Materia Medica and Therapeutics*

ALBERT CHAUNCEY EYCLESHYMER, Ph.D., M.D., *Professor of Anatomy*

GEORGE PETER DREYER, Ph.D., *Professor of Physiology and Physiological Chemistry*

DAVID JOHN DAVIS, Ph.D., M.D., *Professor of Pathology and Bacteriology*

WILLIAM HENRY WELKER, A.C., Ph.D., *Assistant Professor of Chemistry*

LOUIS SCHULTZ, D.D.S., M.D., *Assistant Professor of Oral Surgery and Oral Pathology*

LOUIS E BAKE, D.D.S., *Assistant Professor of Operative Technics*

SOLOMON PERRY STARR, D.D.S., *Assistant Professor of Prosthetic Technics*

VICTOR EMANUEL EMMEL, Ph.D., *Assistant Professor of Anatomy*

ROY LEE MOODIE, Ph.D., *Assistant Professor of Anatomy*

CLAYTON SYDNEY SMITH, B.S., Ph.D., *Associate in Chemistry*

ALFRED ERWIN LIVINGSTON, Ph.D., *Associate in Physiology*

THOMAS HARRIS BOUGHTON, M.S., M.D., *Associate in Bacteriology and Pathology*

J LUCIEN MORRIS, Ph.D., *Associate in Physiological Chemistry*

ELMER DEWITT BROTHERS, B.S., LL.B., *Lecturer on Dental Jurisprudence*

SAMUEL WENDELL WILLISTON, M.D., Ph.D., D.Sc., *Lecturer on Comparative Anatomy*

FRANK JOSEPH BERNARD, D.D.S., *Instructor in Extracting*

JOHN C MCGUIRE, D.D.S., *Superintendent of Infirmary and Instructor in Radiography*

WILLIAM IRA WILLIAMS, D.D.S., *Instructor in Porcelain Art*

EDWARD JOHN KREJCI, D.D.S., *Instructor in Operative Dentistry and Therapeutics*

FREDERICK HOWARD FALLS, A.B., M.S., M.D., *Instructor in Pathology*

HARRY CULVER, B.S., M.D., *Instructor in Pathology*

WALTER SCOTT ADKINS, A.B., *Instructor in Anatomy*

ROSCOE WINTERS UPP, D.D.S., *Instructor in Operative and Prosthetic Technics*

HOWARD E CURL,[1] A.B., M.D., *Instructor in Physiology*

ANNA REGINALDA BOLAN, R.N., *Instructor in Surgical Technics*

KAETHE WELLER DEWEY, M.D., *Instructor and Research Pathologist*

ARTHUR REUBEN COOPER, Ph.D., *Instructor in Zoology*

FRANK HURBURT O'HARA, Ph.B., *Instructor in English*

THOMAS BYRD MAGATH, Ph.D., *Instructor in Anatomy*

JOHN WOOD MACARTHUR, A.M., *Instructor in Anatomy*

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[1] Resigned.

Burne Olin Sippy, A.B., D.D.S., *Instructor in Prosthetic Dentistry and Therapeutics*
George Lester Weir, D.D.S., *Instructor in Operative Dentistry*
Ralph Thomas Huff, D.D.S., *Instructor in Orthodontia*
Michael Francis Hough, D.D.S., *Assistant in Extracting*
James Tobias Groot, *Assistant in Physiology*
William Arthur Cusick, D.D.S., *Clinical Assistant in Therapeutics*
James Everett Fonda, D.D.S., *Assistant in Oral Surgery*
Harold Otto Hansen, D.D.S., *Assistant in Oral Surgery*
Josephine Kennedy, A.B., *Student Assistant in Physiological Chemistry*
Hubbard Prather Saunders, A.B., *Student Assistant in Physiology*
Orion Chester Jones, B.S., *Student Assistant in Pathology and Bacteriology*
Clifford Oakley Armstrong, B.S., *Student Assistant in Pathology and Bacteriology*
Robert Edwin Wilder, *Student Assistant in Radiography*
Gerald Ralph Collins, *Student Assistant in Radiography*

THE SCHOOL OF PHARMACY

(Wood and Flournoy Streets, Chicago)

FACULTY

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WILLIAM BAKER DAY, Ph.G., Phar.M., *Professor of Materia Medica and Botany, Acting Dean, and Secretary*
MAURICE ASHBEL MINER, Phar.M., *Professor of Pharmacy*
CLYDE MASON SNOW, Ph.G., *Assistant Professor of Pharmacy*
ALBERT HENRY CLARK, B.S., Ph.G., *Assistant Professor of Chemistry*
HOWARD E CURL, A.B., M.D., *Lecturer on Physiology*
EDMUND NORRIS GATHERCOAL, Ph.G., *Instructor in Pharmacognosy*
BEN LEE EICHER, Ph.B., Ph.C., *Instructor in Pharmacy*
GEORGE FREDERICK VAUPELL, Ph.C., *Instructor in Chemistry*

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Committee on Library—Professor A. H. Daniels (chairman), Associate Professor W. L. Burlison, Professor J. D. FitzGerald, Professor J. W. Garner, Professor J. S. Kingsley, Professor A. H. Lybyer, Director P. L. Windsor.

Committee on Athletics—Professor G. A. Goodenough (chairman), Professor W. C. Coffey, Professor W. S. Bayley, Professor W. G. Hale, Director G. A. Huff.

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Committee on Discipline for Women—Dean Fanny C. Gates (chairman *ex officio*), Assistant Professor Ruth Wheeler, Miss Curtis.

Committee on Student Organizations and Activities—Professor H. L. Reitz (chairman), Assistant Dean A. R. Warnock, Dean Fanny C. Gates (*ex officio*), Director Louise Freer, Assistant Professor A. W. Jamison.

Advisory Committee on Home-Coming—Professor S. W. Parr (chairman), Mr. Joseph H. Checkley, Director G. A. Huff, Assistant Professor F. W. Scott.

Committee on Loan Funds—Dean T. A. Clark (chairman), Assistant Dean H. V. Canter, Assistant Dean H. H. Jordan.

Committee on Students' Hospital Benefit Fund—Dean T. A. Clark.

Committee on Accredited Schools—Professor E. J. Townsend (chairman), Professor H. A. Hollister, Assistant Professor W. S. Robertson, Assistant Professor B. S. Hopkins, Registrar C. M. McConn.

Committee on Appointment of Graduates—Professor W. W. Charters (chairman), Associate Professor H. G. Paul, Professor H. A. Hollister.

Committee on Catalog—Registrar C. M. McConn (chairman), Associate Professor Robert Stewart, Professor C. A. Ellis, Assistant Professor F. W. Scott.

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Committee on Admissions from Higher Institutions—Professor L. M. Larson (chairman), Professor G. A. Goodenough, Professor H. B. Ward, Assistant Professor J. A. Detlefsen, Professor H. A. Hollister (*ex officio*), Registrar C. M. McConn (secretary *ex officio*).

PART I
GENERAL INFORMATION

LOCATION

The University of Illinois is situated in Champaign County, about fifty miles northeast of the geographical center of the State. It is 126 miles south of Chicago, 118 miles west of Indianapolis, 164 miles northeast of St. Louis.

The campus of the University lies partly within the corporate limits of the city of Urbana and partly within the corporate limits of the city of Champaign. The two municipalities form one community of about twenty-nine thousand inhabitants. The city halls of the two towns are two miles apart, the campus half way between. The railway, express, telegraph, and telephone services of both cities are available for the University. Mail for the institution itself should be directed to Urbana to insure prompt delivery. The Urbana post office maintains a sub-station at the University, located in the Library Building.

Urbana-Champaign

The cities of Urbana and Champaign are in the heart of the "Corn Belt" and form the business and social center of a rich farming community.

In matters pertaining to health, conditions are good. There is a hospital within three blocks of the campus, in which students may be cared for at moderate expense. The University maintains a temporary emergency hospital.

The University has no dormitories, but the number of boarding houses is large, and there are sixty-three residence halls erected by fraternities, sororities, and local clubs.

There are thirty-six churches, representing thirteen denominations, and a number of students' religious associations, leagues, and guilds, including Young Men's and Young Women's Christian Associations.

Under a special State law, the liquor traffic has been barred from all territory within a radius of four miles from the University.

Railway Connections

The University is connected with neighboring cities in Illinois, including Bloomington, Danville, Decatur, Peoria, and Springfield, and also with St. Louis, by the electric interurban lines of the Illinois Traction System.

It may be reached from Chicago and the north and from points in the south by the Illinois Central Railroad, being on the direct line from Chicago to Cairo and New Orleans. It is joined to the east and the west by the Peoria & Eastern Division of the "Big Four" route, as well as by the division of the Wabash Railway which connects Kansas City and St. Louis with Detroit and Buffalo.

The station of the Illinois Central Railroad is in Champaign. The Wabash and "Big Four" have stations in both Champaign and Urbana. There are several hotels in Champaign and Urbana within easy reach of the University, the Beardsley and the Inman in Champaign and the Columbian in Urbana being the largest.

HISTORY

1862. The Morrill Land Grant

By this act the national government donated to each state in the Union public land scrip, in quantity equal to 30,000 acres for each senator and representative in Congress, "for the endowment, support, and maintenance of at least one college, whose leading object shall be, without excluding other scientific and classical studies, and including military tactics, to teach such branches of learning as are related to agriculture and the mechanical arts, * * * * * in order to promote the liberal and practical education of the industrial classes in the several pursuits and professions of life."

On account of this grant the State pays the University, semi-annually, interest at the rate of five per cent on about $649,000.

Location chosen

To secure the location of the University several counties entered into competition by proposing to donate to its use specified sums of money or their equivalent. Champaign County offered a large brick building in the suburbs of Urbana, erected for a seminary and nearly completed, about 1,000 acres of land, and $100,000 in county bonds. To this the Illinois Central Railroad added $50,000 in freight.

1867. Incorporation

The institution was incorporated February 28, 1867, under the name of the Illinois Industrial University. It was placed under the control of a Board of Trustees, consisting of the Governor, the Superintendent of Public Instruction, and the President of the State Board of Agriculture, *ex officio* members, and twenty-eight citizens appointed by the Governor. The chief executive officer was called the Regent, and was made an *ex officio* member of the Board and the presiding officer of both the Board of Trustees and the Faculty. (See also 1873 and 1887 below.)

1867. Dr. Gregory Regent

On March 12, 1867, John Milton Gregory, LL.D., was elected Regent of the University. On April 1, 1867, Dr. Gregory accepted the position and entered on his duties. He served as Regent until September 1, 1880.

1868. The University opened

The University opened on March 2, 1868. The number of students enrolled was about fifty; the faculty consisted of the Regent and two professors. During the first term another instructor was added, and the number of students increased to 77—all young men.

During the first term instruction was given in algebra, geometry, physics, history, rhetoric, and Latin. Work on the farm and gardens or about the buildings was at first compulsory for all students. In March of the next year, however, compulsory labor was discontinued, save when it was to serve as a part of instruction.

1868-69. The first laboratories

During the autumn of 1868 a chemical laboratory was fitted up, and laboratory work in botany was begun the following year.

1870. Pioneer shop instruction

In January, 1870, a mechanical shop was fitted up with tools and machinery, and here was begun the *first shop instruction* given in any American university. In the summer of 1871 the Wood Shops and Testing Laboratory (burned on June 9, 1900) were erected and equipped for students' shop work in both wood and iron.

1870. Women admitted

On March 9, 1870, the Trustees voted to admit women as students. In the year 1870-71 twenty-four availed themselves of the privilege. Since that time they have constituted from one-sixth to one-fifth of the total number of students.

1873. First reorganization of the Board of Trustees

At this time the number of members was reduced from thirty-two (see 1867 above) to eleven—the Governor and the President of the State Board of Agriculture, *ex officio*, and nine others, who were still appointed by the Governor. Beginning at this time also, the President of the Board has been chosen by the members from among their own number for a term of one year. (See also 1887 below.)

1877. Authority to confer degrees received

According to the original State law, the usual diplomas and degrees could not be granted by the University; certificates showing the studies pursued and the attainments in each were given instead. The certificates proved unsatisfactory to the holders, and in 1877 the legislature gave the University authority to confer degrees and issue diplomas.

1880-81. Dr. Peabody Regent

In June, 1880, Regent Gregory's resignation was accepted to take effect September 1, 1880, and Selim Hobart Peabody, A.B., Ph.D., Professor of Mechanical Engineering and Physics, was made Regent *pro tempore*. At the next annual meeting, in March, 1881, he was elected Regent.

1885. Change of name

In this year the General Assembly changed the name of the institution from the *Illinois Industrial University* to the *University of Illinois*.

1885. The State Laboratory of Natural History transferred to the University

See page 405.

1887. Second reorganization of the Board of Trustees

In 1887 a law was passed making membership in the Board elective, at a general State election, and restoring the Superintendent of Public Instruction as an *ex officio* member. There are now, therefore, three *ex officio* and nine elective members. (For the previous organization of the Board see 1867 and 1873 above.)

1887. The Agricultural Experiment Station established at the University

See page 399.

1890. Additional Federal endowment

In 1890 the Congress of the United States made further appropriations for the endowment of the institutions founded under the act of 1862. Under this enactment each such college or university received the first year $15,000, the second year $16,000, and in each succeeding year a sum larger by $1,000 than the amount of the preceding year, until the amount reached $25,000; this sum was to be paid yearly thereafter.

1891. Dr. Burrill Acting Regent

In June, 1891, Regent Peabody's resignation was accepted, to take effect September 1, and in August, Thomas Jonathan Burrill, A.M., Ph.D., Professor of Botany and Horticulture, was appointed Acting Regent. Dr. Burrill served in this capacity until September, 1894.

1892. The Graduate School

Beginning with this year, graduate work was undertaken under the name of the Graduate School, but without the organization of a separate faculty.

1894. The Summer Session

The first Summer Session of the University was authorized by a vote of the Trustees on March 3, 1894, and was opened in June of that year.

1894. Dr. Draper President

On April 13, 1894, Andrew Sloan Draper, LL.D., was elected Regent. He accepted May 10, 1894. On August 1, his title was changed to President. Dr. Draper entered on his duties on August 1, 1894. He served until June, 1904.

1896. The School of Pharmacy

On May 1, 1896, the Chicago College of Pharmacy, founded in 1859, became the School of Pharmacy of the University of Illinois.

1897. The College of Medicine

Negotiations looking to the affiliation of the College of Physicians and Surgeons of Chicago with the University, which had been going on for several years, were concluded by the Board of Trustees March 9, 1897. Accordingly, the College of Physicians and Surgeons became, on April 21, 1897, the College of Medicine of the University of Illinois. (The College of Medicine was discontinued on June 30, 1912, but was re-opened on February 12, 1913.)

1897. The School of Music

By vote of the Trustees on June 9, 1897, the department of music, which had been reorganized and enlarged in 1895, was erected into the School of Music, with a separate faculty and organization.

1897. The State Water Survey authorized

See page 407.

1897. The Library School

In 1897 the School of Library Economy, which had been established in 1893 at the Armour Institute of Technology in Chicago, was transferred to the University, the Director of that school was appointed Librarian of the University Library, and the Library School was opened.

1897. The College of Law

Pursuant to an action of the Board of Trustees, taken December 8, 1896, the School of Law was organized, and was opened September 13, 1897. The course of study covered two years, in conformity with the then existing requirements for admission to the bar of Illinois. In the following November the Supreme Court of the State announced rules relating to examinations for admission to the bar which made three years of study necessary, and the course in the Law School was immediately rearranged on that basis. On February 9, 1900, the name of the School of Law was changed, by vote of the Board of Trustees, to *College of Law*.

1899. The State Entomologist's office permanently established at the University

See page 406.

1900. Courses in Business Administration

In 1900 the General Assembly made an appropriation for the establishment of courses of training for business life, and, in accordance with that action, the Trustees approved the organization of the Courses in Business Administration. (See also 1915 below.)

1901. The College of Dentistry

In accordance with an action taken by the Board of Trustees on March 12, 1901, a School of Dentistry was organized as a department of the College of Medicine. The School was opened October 3, 1901. The name was changed to *College of Dentistry* on April 27, 1905. (The College of Dentistry was discontinued on June 30, 1912, but was re-opened on October 1, 1913.)

1903. The Board of Examiners in Accountancy created

See page 410.

1903. The Engineering Experiment Station established

See page 403.

1904. Dr. James President

On March 9, 1904, President Draper's resignation was accepted, to take effect July 1. On August 23, 1904, Edmund Janes James, Ph.D., LL.D., was elected President. He accepted on August 26, 1904, and entered on his duties in the fall of that year.

1905. The School of Education

By a vote of April 27, 1905, the Board of Trustees established the School of Education, to provide for the professional training of teachers.

1905. The State Geological Survey established

See page 408.

1906. Adams Fund

This fund was created by an act of Congress dated March 16, 1906, and provides for an appropriation of $5,000 for the year ending June 30, 1906, and an increase of $2,000 a year for five years. The present appropriation to the University under the Adams Act, is, therefore, $15,000 a year. Its use is limited to the necessary expenses of original research and experimental work in agriculture.

1907. Nelson Fund

This fund was created by an act of Congress dated March 4, 1907, and carried with it an appropriation of $5,000 for the fiscal year ending June 30, 1908, and an annual increase of $5,000 for four years. The present appropriation to the University under the Nelson Act is, therefore, $25,000 per year. Its uses are identical with those of the Morrill Fund.

1906-7. The School of Railway Engineering and Administration

On January 30, 1906, the Board of Trustees created in the College of Engineering a department of railway engineering; on January 22, 1907, supplementing that action, it established the School of Railway Engineering and Administration. (See also 1917.)

1906-7. The Graduate School organized as a separate faculty

The General Assembly appropriated $50,000 for the Graduate School, and the Executive Faculty of that school was organized.

1911. The Mill Tax

The General Assembly passed a law providing that in the year 1912, and annually thereafter, the proceeds of a tax of one mill for each dollar of the assessed valuation of the taxable property of the State should be set apart as a fund for the maintenance of the University.

1911. Cooperative Investigation of Illinois Coal Problems

See page 411.

1912. The College of Medicine and Dentistry discontinued

The College of Medicine and Dentistry were discontinued on June 30, 1912.

1913. The Colleges of Medicine and Dentistry re-opened

On February 12, 1913, the Board of Trustees accepted the gift of the capital stock of the College of Physicians and Surgeons, donated to the University by the alumni and other friends of medical education in Chicago, and the College of Medicine was re-opened.

The College of Dentistry was re-opened on October 1, 1913.

1913. The College of Liberal Arts and Sciences

In this year the College of Literature and Arts and the College of Science were united to form the College of Liberal Arts and Sciences.

1915. The College of Commerce and Business Administration

The Courses in Business Administration, organized in 1900, were erected into a separate College of Commerce and Business Administration.

1917. The School of Railway Engineering and Administration suspended

In 1917, the activities of this school were suspended because the leading members of its faculty were called away for war service.

EQUIPMENT

BUILDINGS AND GROUNDS

The land occupied by the University embraces 238 acres, besides a farm of 991 acres. There are at the present time some fifty-one buildings on the campus.

Liberal Arts

University Hall (erected 1873) is the "old main building" of the University. It occupies three sides of a quadrangle, and is five stories in height. It is devoted to class rooms and offices.

Lincoln Hall (erected 1911) has a frontage of 230 feet. The exterior is brick, stone, and terra cotta. The building provides for the advanced work of the departments of the classics, English, Romance languages, Germanic languages, history, economics, education, political science, sociology, and philosophy. The first three floors provide, in addition to the ordinary class and consultation rooms, seminar libraries and conference rooms. On the fourth floor are research rooms and two museums, the Museum of Classical Art and Archeology, and the Museum of European Culture.

General Science

The Laboratory of Physics (erected 1909) is a three-story fireproof brick building trimmed with Bedford limestone. The length is 178 feet and the depth of the wings is 125 feet. The lecture room has a seating capacity of two hundred sixty-two. A one-story annex, 78 by 28 feet, contains the ventilating and heating fans and the machine shop of the department. The total available floor area, exclusive of the basement, is about 60,000 square feet. The large laboratories and the recitation rooms are mostly in the west wing. The east wing contains about thirty smaller laboratories for advanced experimental work. The department of blue printing and photography occupies rooms on the top floor of the building. Gas, distilled water, compressed air and vacuum, and direct and alternating electric currents of a wide range in amperes and in volts are available in all parts of the building.

The Chemistry Laboratory (original structure erected 1901-2; addition 1914-15) is a brick building. The original structure is of slow burning construction, and the addition is fireproof. The total available floor area is about 164,000 square feet. The ground plan is a hollow square, the extreme dimensions of which are 230 feet along the front, and 200 feet along the sides. The center court contains the lecture amphitheater, which seats 390. The side wings of the building contain the general laboratories, while the center portions of both old and new structures are occupied by offices, class and seminar rooms, library, museums, supply rooms, and research laboratories. The main store room is in the basement under the lecture room. In this building are also located the offices and laboratories of the State Water Survey and the department of bacteriology.

Natural History Hall (old part erected 1892; addition 1909) covers a ground area 135 feet by 275 feet. It is occupied by the departments of botany, entomology, zoology, physiology, geology, and mathematics, and the offices of the State

LIBRARY
UNIVERSITY OF ILLINOIS

Natural History Survey and the State Entomologist. A fireproof museum 51 feet by 63 feet in size, equipped with fireproof and dustproof cases, occupies the center of the building.

The Botany Annex (erected 1914) is a greenhouse laboratory covering 5,000 square feet, divided into compartments that are severally provided with devices for controlling humidity and temperature within close limits for exact experimentation in the fields of plant physiology and pathology. To this laboratory is attached a reconstructed two-story dwelling, giving working and class rooms for use in connection with the experiments conducted under glass.

The Vivarium (erected 1915-16) occupies the block south of the Illinois Traction System tracks, between Wright and Sixth streets, the main facade of the building being toward Healey street. The scheme involves a main building containing eight laboratories, one office, and store rooms, with supplementary greenhouses at each end, and a head house serving two greenhouses, together with two screened houses. The main building is a brick structure, two stories high, connected to the head house by a one-story passage from the main corridor. The building is occupied by the departments of zoology and entomology.

The Entomology Building (erected 1905 for the use of the State Entomologist and his staff) is a two-story building 48 by 20 feet, with basement storerooms, and with two insectary wings of greenhouse construction, each 25 by 20 feet. It contains the office of the horticultural inspector, a stenographer's room, rooms for the assistant inspectors and insectary assistants, and a large fireproof vault. The glass-covered wings are equipped for experimental entomology and life-history studies.

The Astronomical Observatory (erected 1896) is a brick building with extreme dimensions of 75 by 55 feet. It has three wings and is surmounted by a dome 25 feet in diameter, which houses the 12-inch refracting telescope. An adjacent building with a 15-foot dome, erected in 1914, contains a 30-inch short focus reflector.

Commerce and Business Administration

The Commerce Building (erected 1912) is a fireproof building three stories high, 153 feet on the front and 60 feet deep, with a one-story annex containing a lecture room 48 feet square. The building has a total floor area of about 29,000 square feet; it provides class rooms, offices, and laboratories for the work in business administration. The exterior first story finish is buff Bedford stone; the second and third stories are of brick with carved stone trimmings and cornice. The roof is of tile, and the interior trim is of dark oak. The Administration Building (see page 56) is a second unit of this building and will eventually be occupied by this College.

Engineering

Engineering Hall (erected 1894) is a four-story building, with a frontage of 200 feet, a depth of 76 feet on the wings and 138 feet on the center, and a floor area of 47,000 square feet. The first and second floors are occupied by the offices and recitation rooms, and the instrument and drafting rooms of the departments of civil engineering and municipal and sanitary engineering. The engineering lecture room, on the second floor, has a seating capacity of two hundred twenty-five. The third floor is occupied by the offices of the Dean of the College of Engineering and Director of the Engineering Experiment Station, and by offices, recitation, and drafting rooms of the departments of mechanical engineering and architecture. All of the fourth floor is occupied by the department of architecture.

The Electrical Engineering Laboratory (erected 1898) is a two-story brick building with floor area of 18,000 square feet. The basement contains the departmental shop, the storage battery room, the electric furnace room, and rooms for electrical research. The first floor contains the undergraduate laboratory, the instrument room, the high potential laboratory, and the drafting, lecture, and recitation rooms. The second floor contains the photometric laboratory, the offices, the departmental library, and a room used by the Electrical Engineering Society.

The Mechanical Engineering Laboratory (erected 1905, remodeled 1917) is a brick building 120 by 182 feet. In 1916 the interior was changed to provide for a basement with an elevated or mezzanine operating floor, giving a floor area for laboratory purposes of 28,000 square feet. On the mezzanine floor is mounted all of the principal equipment of the laboratory; in the basement auxiliary apparatus is housed. The front section is two stories high and together with the two-story addition to the south contains offices, lecture and computation rooms, a lavatory, and an instrument room. The main laboratory is divided into three bays, each approximately 40 feet wide. The middle bay is provided with a ten-ton, three-motor traveling crane, and the north bay with a five-ton hand-operated traveling crane. In the basement two flumes, each three feet deep by four feet wide and 120 feet long, together with a storage reservoir having a capacity of 7,000 gallons, provide for the measurement and storage of water.

The Laboratory of Applied Mechanics (erected 1901-2) is a brick building having a floor area of 16,000 square feet. The front part contains the materials testing laboratory, and the rear wing the hydraulics laboratory.

The Road Materials Laboratory (erected 1910) is a two-story brick addition to the Mechanical Engineering Laboratory, containing the laboratories and certain recitation rooms and offices of the department of civil engineering, which are closely associated with the work of testing materials used in road construction, and with researches in the development of such materials.

The Mining Engineering Laboratory (erected 1912) is a one-story building having a floor area of 3,600 square feet. It contains a chemical laboratory for the department of mining engineering, and a Mine Rescue Station equipped and arranged for training men in the methods of mine rescue work.

The Ceramic Engineering Kiln House (erected 1912) connects with the ceramic engineering building. It has a floor area of 11,200 square feet, and contains the kilns, furnaces, and heavy machines for working clays.

The Ceramic Engineering Building (erected 1915-16) is a three-story structure, 188 by 65 feet, of fireproof construction, built of texture brick and polychrome terra cotta. The front of the building is decorated with colored tile panels. The roof is of Spanish tile, and the floor of the halls and corridors of clay tile. The structure is intended to present modern achievement in the use of ceramic structural materials. The third floor is occupied by the State Geological Survey and about one-third of the first floor by the department of applied mechanics. The main portion of the building is utilized by the recitation rooms, laboratories, and offices of the department of ceramic engineering.

The Locomotive Testing Laboratory (erected 1912) is a brick fireproof building 117 by 42 feet, connected by a spur with the Illinois Traction System tracks. It houses a locomotive testing plant, which consists of supporting wheels on which rest the drivers of the locomotive to be tested, a dynamometer to which the locomotive drawbar is attached, and which measures the tractive force exerted by the locomotive, water brakes for absorbing the power developed by the locomotive, and other auxiliary apparatus. The exhaust gases pass through an asbestos board duct to a large fan which forces them through a reinforced concrete cinder separator; the separator removes the cinders and discharges the gases into the air through a brick stack eight feet in diameter.

The Transportation Building (erected 1912) is a three-story fireproof building of brick trimmed with stone. The building is 65 by 189 feet and the total floor area is 34,225 square feet. The first and second floors of the building are occupied by the departments of railway and mining engineering, and the third floor by the department of general engineering drawing.

The Metal Shops (erected 1902) occupy a one-story brick building with a floor area of 12,000 square feet, containing office rooms, a machine shop, and a forge shop. The machine shop is 48 by 140 feet. Power is supplied by a twenty-horse-power electric motor. A three-ton traveling crane of ten-foot span covers the center of the floor for the entire length.

The Wood Shop (erected 1901-2) and the *Foundry* (added 1904) occupy a brick building which has a floor area of 16,000 square feet. The wood shop contains a bench room, lathe room, machine room, and various smaller rooms for lectures and exhibition purposes. The foundry has a molding floor 35 by 80 feet, traversed by a five-ton traveling crane, and a basement room for the storage of materials.

Agriculture

The Agriculture Building (erected 1900) consists of four separate structures, built around a court and connected by corridors. The court was enclosed in 1912 and divided into five large class rooms. The main building, three stories high, contains offices, class rooms, and laboratories for the departments of agronomy, animal husbandry, dairy husbandry, and horticulture; the chemical laboratory of the Experiment station; administration rooms; and assembly room (Morrow Hall) with a seating capacity of 500. The other three buildings are two stories high; one is for dairy manufactures, one for farm crops, and one for class rooms and laboratories. These buildings are of stone and brick, roofed with slate, and contain 113 rooms and a total floor space of about two acres.

The Agronomy Building (erected 1904-5) is a brick and slate structure 50 by 100 feet. It contains a field laboratory and storage room for crop work.

The Agronomy Greenhouse (erected 1900, rebuilt 1912) consists of two glass structures covering a total floor space of 6,500 square feet, and a service building equipped with research and photographic laboratories.

The Agronomy Barn (erected 1915) is a wooden structure 36 by 70 feet, designed as a service and storage building for the field work of the department of agronomy.

The Animal Husbandry Cattle Feeding Plant (first unit erected 1917) is of brick and frame construction with a tile roof, located on the axis of Fourth Street, south of the "Farm Lane." There are eight silos built in a circle to enclose a feed room. The two to the south are 16 ft. by 70 ft. and the others are 12 by 40 ft. The plant will also be used as a storage place for feed for the animal husbandry department. In the section not yet built the upper stories will be constructed as an elevator with large grain bins, where grain can be elevated, preparatory to grinding, shipping, or feeding. There will be a corn crib with a capacity of 12,000 bushels.

The Farm Mechanics Building (erected 1906-7) is a three-story brick structure, containing class rooms, offices, lecture rooms, drafting room, library, laboratories, and tool and storage rooms. The third floor furnishes storage room for the greater part of $16,000 worth of farm machinery, lent the College by manufacturing companies and used for laboratory work. The facilities afforded by this building, with its equipment, make possible the assembling, testing, and adjusting of all the important machines used in farm operations.

The Pure Bred Dairy Cattle Barn (erected 1891, remodeled 1895 and 1901) consists of a main two-story wooden structure 104 by 48 feet, a wing to the east 74 by 30 feet, and a shed for young stock at the south 72 by 30 feet. About 40 head of milking cows in addition to young stock and bulls are accommodated. Two Gurler silos are at the south and a wooden stave silo at the east.

The Beef Cattle Building (erected 1904-5) is a one-story structure of brick and slate, trimmed with stone, 217 feet across the front, with a wing at either end 33 by 49 feet; the central portion rises two stories and is used for the storage of feed. Other portions of the building are used as quarters for the breeding herd, and will accommodate about 100 head of cattle. This building will be remodeled in 1918 for Animal Pathology and the breeding herd will be moved to the new Feeding Plant.

The Experimental Dairy Barns (erected 1912) comprise three round barns, the largest being 70 feet in diameter with a reinforced concrete silo in the center, a semi-detached rectangular structure 40 by 70 feet with a Grout silo adjacent, and a small dairy house and shop 26 by 32 feet. The barns are of frame construction on brick walls with solid floors of the mill type of construction, and contain feed rooms, hay lofts, and other accommodations for the experimental dairy herd. The dairy house is of frame construction, two stories in height, and contains office, shop, coal room, dairy room, and four sleeping rooms for employees.

The Sheep Barn is a wooden structure consisting of a main barn 36 by 90 feet, and a shed, opening to the south, 25 by 100 feet in size. A six-foot aisle, lined by pens on each side, runs through the center of the barn. This building besides accommodating the University flock is used for experimental work.

Other buildings on the South Farm for the accommodation of live stock are three horse barns and the piggery.

The Stock Pavilion (erected 1913) is a fireproof building 54 feet high on the front and 148 feet deep with circular ends 92 feet in diameter and 20 feet high. The total ground area is 30,000 square feet, and the show arena is 216 feet long and 65 feet wide. Seats of concrete provide accommodations for 2,000. The arena may be divided into three parts, giving three separate judging rooms. The building also contains class rooms and offices. The exterior is of brick and terra cotta, renaissance in design, the frieze being enriched with medallions of animal heads.

The Genetics Building (erected 1915-16) is a one-story brick structure (located on Farm Lane and Mathews Avenue) housing the laboratories, offices, and animal rooms of the department of genetics. The work carried on in this building is done principally by graduate students.

The Horticulture Building (erected 1904-5) is a structure of brick and slate trimmed with stone, approximately 50 by 100 feet in size. It is used as a field laboratory for horticultural tests, and contains sorting and storage rooms and a laboratory for the mixing of spraying materials and other operations in connection with the horticultural work.

The Horticulture Greenhouse Group (erected 1912-13) includes (1) a floricultural group and (2) a vegetable and plant breeding group.

(1) *The Floriculture Greenhouse Group* (erected 1912-13) consists of a two-story and basement service building 93 by 37 feet, and the following glass structures: four houses each 105 by 28 feet, three houses each 105 by 35 feet, one corridor house 139 by 10 feet, one storage house 50 by 12 feet, and a palm house 80 by 40 feet. The service building is of hollow tile and cement construction, and contains laboratories, lecture room, sales room, offices, and seminar room, as well as potting, storage, and work rooms.

(2) *The Vegetable and Plant Breeding Greenhouse Group* (erected 1912–13) consists of a glass house for vegetable growing 105 by 28 feet, two houses for plant breeding each approximately 80 by 30 feet, a wire house 80 by 30 feet, and a two-story and basement service building 82 by 36 feet, containing laboratories, work rooms, class rooms, offices, and storage rooms. The type of construction of this building is the same as that of the floriculture service building.

Law

The Law Building (erected 1878; remodeled 1902 and 1912) is the second oldest building in the University group. It has two stories and a basement. The upper floor contains the Law Library, the students' conference room, the private offices of the members of the law faculty, and the Moot Court Room, a model court room with a seating capacity of four hundred. On the main floor are the recitation rooms, the Dean's offices, and the faculty room. In the basement are the lockers, the students' reading room, and a court room for the Law Clubs.

Buildings for General University Use

The Administration Building (erected 1914-15) is a three-story and basement fireproof building of brick and stone. It is 153 by 66½ feet with a one-story annex, 48 by 42 feet, with a total floor area of 36,000 square feet; it contains the rooms of the Board of Trustees and the offices of the President, the Registrar, the Comptroller, the Supervising Architect, the Dean of Men, the High School Visitor, the Adviser to Foreign Students, and the Alumni Association, and the Information and Stenographic Bureau. This building is the second unit of the Commerce Building, and will eventually be occupied by that College.

The Library Building (erected 1896-97; an addition to the stack room erected 1914) is modern Romanesque in style, is built of Minnesota sandstone, and measures 167 by 141 feet, with a tower 132 feet high. The first floor, or basement, contains the rooms of the catalog and order departments, the bound newspapers, and the University Station post office. The second, or main floor, contains the general reference room, the periodical reading rooms, a small conference room, and the delivery room, which opens into the second story of the stack. The third floor contains the study room, lecture rooms, and office of the Library School, faculty study room, and the office of the librarian. The five-story book stack is a rear wing to the building, separated from it by a fireproof wall. The delivery room is open to the roof and is lighted by a dome of art glass; the lunettes are decorated with frescoes symbolic of the four older colleges of the University—Literature and Arts, Science, Agriculture, and Engineering.

The Auditorium (erected 1907-8) is a brick and stone building for general meeting purposes. It contains an auditorium seating about 2,200, a memorial vestibule, and a four-manual organ. All general University exercises and convocations are held in this building.

The Men's Gymnasium (erected 1901) is a three-story building of stone and pressed brick, 100 by 150 feet. On the first floor there is a swimming pool, 26 feet wide, 75 feet long, and 8 feet deep at the lower end, lined with white enamel bricks. The water is filtered and sterilized by continuous circulation through a violet ray sterilizer. This floor contains also the general locker room, which is fitted up with all-metal lockers, and with shower bath, and steam baths; rooms for the University Athletic teams; a room for visiting teams; a special dressing room for members of the faculty; and offices for the physical director and the instructors in athletics.

The entire second floor is one room, fitted up with modern appliances for gymnastic exercises. The third floor contains an elevated running track, 15 laps to the mile, banked on the turns to secure speed and comfort in running.

The Gymnasium Annex (erected in 1889-90) has a clear floor space of 15,000 square feet in one hall.

The Armory (erected 1914-15) comprises a drill room with a clear area of 200 by 400 feet and a height of 93 feet at the center, the roof being carried by fourteen three-hinged steel arches. The sides are of hollow tile and the ends, supported by columns, are of steel, glass, tile, and concrete, with wood frames and sashes. The drill floor is of sufficient area to permit the maneuvering of an entire battalion of the cadet brigade. Provision has been made for the addition of the balcony around the drill floor with seats for 3,000 and for the addition of three-story facades along the sides flanked by towers at each end. This will provide space for company rooms, locker rooms, shooting tubes, and class rooms.

The Woman's Building (erected 1905; addition 1912) is in the New England colonial style of architecture, of reddish brown brick, with white stone trimmings. The central part of the structure is the women's gymnasium. On the lower floor there are swimming tank, lockers, dressing rooms, and baths. The upper floor is devoted to the main gymnasium, which is 92 by 50 feet. The north wing of the building is given to the department of household science, and the south wing provides rooms for the social life of the women students. The addition is a three-story fireproof building with basement. It is 200 feet long on the front and 83 feet on each connecting wing, having 43,000 square feet of floor area. It has a large colonnade with towers on the front and two smaller colonnades on the north and south of the inner court. The addition is similar to the old building in finish. It has two halls for literary societies and a modern flat on the upper floor, and an institutional kitchen and large dining room on the second floor. There are also offices for the Dean of Women and the Director of the Courses in Household Science, laboratories, social rooms, and space for the expansion of gymnasium work.

The President's House

The President's House (erected 1896) is a three-story frame building, in the colonial style. This building has been assigned to the Y. M. C. A. for this year because their building is being used as a barracks for the School of Military Aeronautics.

The President's House (acquired in 1917) is located at 1103 W. Nevada Street, Urbana. It is a two-story stucco building in the modern English style. It contains the usual living and service rooms of a ten-room house, and is featured by a large living-porch opening into an old fashioned trellis-walled garden.

Women's Residence Hall

The Women's Residence Hall (erected 1917) is located on Nevada Street north of and adjacent to the new athletic field for women. It is a three-story fireproof brick and stone building of colonial design, U-shaped in plan, with a total frontage of 167 feet and wings running back 101 feet. It will accommodate 98 girls. There are both double and single rooms, a suite for the matron, an emergency hospital, and rooms for servants. The basement contains the kitchen and a large dining room in each wing overlooking the sunken garden in the court. There are also lockers and shower accommodations for non-resident girls who use the adjacent athletic field. In the center of the first floor there is a large living room with adjoining parlors. The wings on each side of the first floor are at a higher line and are occupied by student rooms. There is a large sleeping porch at the south end of each wing on each floor. This building has been assigned for use this year as a barracks for the School of Military Aeronautics.

The Isolation Hospital

The Isolation Hospital (erected 1908; reconstructed 1914 and 1917) has been used for its present purpose since 1914. It is a substantial one-story stucco building 27 by 103 feet. The basement contains a supply room, a laboratory, and a complete disinfecting suite, consisting of a formaldehyde room, a septic room, a sterilizing room, and a physicians' wash room, locker room, and sterile room. The first floor is divided into three separate ward units, each with a capacity of seven beds and having a nurse's room with bath, a diet kitchen, a linen closet, a bath room, and a private room for use as an observation room or for serious cases. The building is provided with all necessary sterilizing and antiseptic devices in connection with the wards, in addition to the equipment in the basement.

Service Buildings

The Central Heat and Power Plant (old boiler house erected 1902; new boiler house, 1910 and 1914). The old boiler house is 55 by 120 feet and contains 960 horsepower of boilers which are used only as a reserve. The new boiler house, designed to be enlarged as necessity requires, is equipped with four 500-horsepower, B. & W. boilers with green chain grates. A power plant containing a 250-kilowatt Allis-Chalmers direct connected steam engine and dynamo, a 125-kilowatt direct connected Westinghouse engine and generator, and a 100-kilowatt Curtiss turbo-generator, together with the accessories necessary to a complete power station, supplies current for light and power to all parts of the grounds. The pipe lines of the heating system and the circuits for distributing electricity are carried from the central plant to the several buildings through brick and concrete tunnels and clay and concrete conduits. There are now 6,568 feet of tunnels and 10,105 feet of conduit for the distribution of steam, and 48,850 duct feet of conduit for the distribution of electricity. The new boiler and power plant provides temporary quarters for the electric test car of the department of railway engineering.

The Pumping Station of the University water-works is a brick building, 38 by 75 feet, connected with the central heating station. Four 8-inch wells, 145 feet deep, one 12-inch well 148 feet deep, and a 24-inch well 170 feet deep, supply the University with water. A masonry reservoir provides for a fire-reserve supply. The pumps, tanks, and connections are arranged to give opportunities for experimental work, and also to vary the working conditions in the adjacent hydraulics laboratory. In this building is kept the equipment of the University fire department, including an electric automatic hose and chemical wagon.

BUILDINGS IN CHICAGO

The College of Medicine Building, in which are housed all the departments except that of anatomy, is a brick and stone structure two hundred feet long by one hundred and ten feet deep and five stories high, fronting on three streets. The building contains three lecture rooms with a seating capacity of two hundred each; a clinical amphitheater with a seating capacity of over three hundred; an assembly hall with a seating capacity of seven hundred; besides recitation rooms. It also contains laboratories for physiology, chemistry, materia medica, therapeutics, and microscopical and chemical diagnosis, each accommodating from fifty to one hundred students at a time.

A three-story annex to the main building contains the laboratories used by the departments of pathology, bacteriology, and chemistry. All of these laboratories have outside light and are furnished with work tables, desks, lockers, and the necessary apparatus. There is a supply of microscopes, lenses, and oil immersions, and a projection apparatus for the illustration of lectures by means of stereopticon views.

The College of Dentistry is housed in a six-story building containing three amphitheaters, a clinical operating room, an infirmary, recitation rooms, the laboratories of gross anatomy and of prosthetic and operative dentistry, administrative offices, three dental depots, and four special laboratories, for research in histology and pathology, for anatomical modeling, for porcelain work, and for instructional and diagnostic work in radiography. The building adjoins that of the College of Medicine.

The School of Pharmacy.—In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets and comprising eight city lots with two large brick buildings, connected by a fireproof central stairway tower. The new quarters were occupied in June, 1916.

LIBRARIES

(For the Library Staff see page 33.)

The University Library includes all the books belonging to the colleges and schools of the University which are situated in Urbana and also the libraries of the College of Medicine and the School of Pharmacy in Chicago.

On December 1, 1917, the contents of the several libraries were as follows:

In Urbana:	*Volumes*	*Pamphlets*	*Maps*
General library, including departmental collections	377,958	48,098	2,068
State Laboratory of Natural History library	9,556	47,311	93
State Geological Survey library	2,250	4,875	975
In Chicago:			
College of Medicine library	18,799	3,240	....
Pharmacy library	3,174	1,000	8
Total in the University	411,737	104,524	3,144

The Library is housed, for the most part, in the Library building, and is for the use of the whole University. The officers of instruction and administration of the University, the graduate students, and the members of the senior class have direct access to the shelves; other students may have this privilege on the recommendation of their instructors. All students have the direct use of 10,700 volumes in the reading rooms, and in addition advanced students have the use of the seminar libraries. Over 3,000 periodicals are currently received.

As a part of the Library are included several special collections: The *University of Illinois collection*, including printed material illustrating the history of the University: about 300 volumes. *College Publication collection*, comprising the catalogs, announcements, reports, studies, etc., of other educational institutions: about 5,500 volumes. *Thesis collection*, a complete file of the original copies of the theses presented for graduation from the University, bound and filed by years: 2,160 volumes. The *Collection of School Reports*, a catalogued collection of school reports, courses of study, and other documents published by public school authorities throughout the United States. The *Dziatzko Collection of Library Economy*, the entire library of Karl Dziatzko, librarian of Göttingen University: 300 volumes. 250 pamphlets, bought in 1905. The *Dittenberger Collection of the Classics*, the entire library of Wilhelm Dittenberger, professor of Classical Philology in the University of Halle:

5,600 items, bought in 1907. The *Heyne collection*, the philological library of Professor Moritz Heyne of the University of Göttingen: about 5,000 items, principally on German philology and literature, bought in 1909. The *Karsten collection*, principally on French and German philology and literature, the library of the late Professor Gustaf E. Karsten, presented by Mrs. Eleanor G. Karsten. The *Grober collection*, the entire library of the late Professor Gustav Grober, of Strasburg: 6,300 titles, principally on the Romance languages, purchased in 1912. The *Vahlen collection*, the entire classical library of the late Professor Johannes Vahlen, of Berlin: 10,000 volumes, purchased in 1913. The *Aron collection*, the pedagogical library of the late Dr. R. Aron, of Berlin: 20,000 volumes, purchased in 1913. The *Carl Martin James collection*, 1,030 volumes relating to statistics and similar subjects, presented in 1915 by President Edmund J. James. The *D. C. Greene collection*, 219 volumes of books and newspapers relating to Japan, presented in 1915 by Professor E. B. Greene. The *Rattermann collection*, of German-American literature and history: 7,000 volumes, purchased in 1915. The *Amanda K. Casad collection*, relating to history, economics, politics, and education: 1,732 volumes, presented in 1916 by President Edmund J. James. The *Constance Barlow-Smith collection*, of musical scores: manuscript, books, and portraits, presented in 1916 by Mrs. Constance Barlow-Smith.

A number of departmental and college libraries and reading rooms are maintained in various buildings on the campus; these libraries do not necessarily contain all the books in the respective subjects. In some instances they are primarily for the use of the graduate students and advanced undergraduate students in the departments using the respective buildings. The principal departmental libraries and reading rooms are the following:

Name of Library	*Location*	*Volumes*
Philosophy, Psychology, and Education	Lincoln Hall	15,900
Classics	Lincoln Hall	22,986
Modern Languages	Lincoln Hall	27,000
English	Lincoln Hall	16,400
History and Political Science	Lincoln Hall	20,000
Economics and Sociology	Lincoln Hall	24,000
Natural History	Natural History Building	22,377
Law	Law Building	22,000
Commerce Reading Room	Commerce Building	1,920
Architecture, Ricker Library of	Engineering Building	4,700
Agriculture Reading Room	Agricultural Building	9,000
Chemistry	Chemistry Building	10,500
Physics	Physics Building	1,490
Mathematics	Natural History Building	5,610
Railway Engineering and Mining	Transportation Building	4,200
Engineering	Engineering Building	4,600

Mason Library of Western History. The library of western history collected by Edward G. Mason, Esq., long president of the Chicago Historical Society, is in the Public Library of the city of Champaign, and is accessible to students in the University.

MUSEUMS AND COLLECTIONS

College of Liberal Arts and Sciences

Liberal Arts Group

Art.—A collection of casts, photographs, and engravings presented to the University in 1876 by citizens of the community has, for want of a suitable gallery, been placed in different buildings on the campus. Eight large statues are in the Auditorium foyer. Numerous pieces are now in the studios of the department of art and design in University Hall, and others are in the corridors and class rooms of University Hall, Lincoln Hall, Natural History Hall, and the Library. A collection of eighty-one German and Japanese prints purchased by the department of art and design from the St. Louis Exposition in 1905 is displayed in the rooms of the department of art and design.

Other collections of value to art students, consisting of a number of casts of Moorish, Spanish and German ornament and miscellaneous casts, models, prints, and drawings, are placed in the studios and corridors of the department of art and design.

Classical Archeology and Art.—This museum is located in Rooms 402, 404, and 406 Lincoln Hall, and contains casts and photographs of Greek and Roman sculpture; colored reproductions of ancient painting; many objects from the finds of the Egypt Exploration Fund, received through the generosity of Mr. W. G. Hibbard, Jr., of Chicago; numerous ancient coins; thirty Greek papyri; over 1400 Babylonian tablets; and other originals and models of Babylonian, Greek, and Roman antiquities. About 2200 photographs exhibit important historic sites and archeological remains and in addition there are available 1900 slides belonging to the department of classics. The museum is open on Sunday, Monday, Wednesday and Friday afternoons, and Saturday mornings.

Education.—In Room 417 University Hall is a collection of illustrative material from the manual training departments of various schools; photographs of school buildings; drawings and constructive work by pupils in the public schools; and the nucleus of a collection of apparatus for the school laboratory.

European Culture.—The Museum of European Culture is in the north wing of Lincoln Hall. It contains casts of Romanesque, Gothic, and Renaissance sculpture; color reproductions of masterpieces of painting; originals and facsimiles of medieval manuscripts, early printed books, and early maps of the world; originals and reproductions of medieval arms and armor and of prehistoric and early historic antiquities: theater models and prints of theaters and actors; peasant costumes: ship models; reproductions of early church ivory carving and metal work; about 350 coins; carbon prints of cathedrals and other photographic material; reproductions of runic inscriptions, early musical instruments, and other objects. The museum is open on Sunday, Monday, Wednesday, and Friday afternoons, and Saturday mornings.

Science Group

Botany.—The herbarium contains over 100,000 sheets of mounted specimens, It is representative of the higher plants and fungi of Champaign County and of the State, and forms a collection for the general flora of the United States. Through the acquisition of the herbaria of the late Dr. Frederick Brendel of Peoria, the late Dr. W. Welsch of Mascoutah, the late Dr. Jacob Schneck of Mount Carmel, and Professor W. E. Andrews of Pana, and the earlier gift of the large personal herbarium of Mrs. Agnes Chase, its value for students of the Illinois flora has been largely increased. Because of the interest of the late Professor Burrill and his special students, Clinton, Earle, Seymour, and others, in the study of parasitic fungi, the part of the herbarium devoted to the representation of plants of this group is rich in material records of investigation. This group was greatly enriched by the Stevens collection of Porto Rican fungi, fourteen thousand numbers, presented by Professor F. L. Stevens in 1916. The published "exsiccatae" in this group are well represented. The recent gift of her personal set of the Phycotheca Boreali-Americana by Mrs. Mary S. Snyder has increased the reference value of the herbarium for students of algae, of which it represents over 2,000 named species.

Entomology.—The entomology collections of the University include a reference series of 6,400 specimens, representing 1,600 common species; and the Bolter collection, given to the University by the executors of the estate of the late Andreas Bolter of Chicago, which now contains about 120,000 specimens representing over

16,000 species. The department has access, also, to the insect collections of the State Laboratory of Natural History, which contain 330,000 pinned insects and 26,000 vials and bottles of specimens in alcohol, mainly from Illinois.

Geology.—The department has adequate working collections which illustrate the principal phases of geology, including 10,000 hand specimens of rocks, 3,000 thin sections for microscopic study, over 12,000 minerals, and 60,000 fossils. In the corridors of the Natural History Building are exhibits of gems and precious stones, meteorites, polished ornamental stones, and specimens illustrating geologic structures, and the principal types of rocks, minerals, and fossils. The collections available for advanced students include those of Tyler McWhorter, Hertzer, and the greater part of the specimens collected both privately and for the State Geological Survey by A. H. Worthen.

Geography.—The geography collection consists of a complete file of the United States topographic maps; a collection of U. S. Geological Survey folios; combined contour maps representing the physiographic provinces of the United States; a collection of foreign topographic maps; rainfall and vegetation maps; relief models of all the continents and of smaller areas; and several thousand lantern slides.

Zoology.—The zoology collections illustrate the work in zoology and present a synoptical view of the zoology of the State. Most of them are placed in the museum room in the Natural History Building, and in adjacent corridors. The mounted mammals include a collection of the ruminants of the United States and representatives of the other orders of Mammalia except the Sirenia. The same orders are also represented by mounted skeletons. There are also a collection of mounted birds; the Barnum collection of bird's eggs; a collection of nests and eggs of Illinois birds; a series of mounted skins of larger species of cold-blooded vertebrates, both terrestrial and marine; mounted skeletons of typical representatives of the principal groups; alcoholic specimens; and casts; alcoholic specimens of all classes and orders of Mollusca, and dissections showing the internal anatomy of typical forms; several thousand shells, belonging to more than 2,000 species. (The collection of the Illinois aquatic species is nearly complete.) Several hundred dried specimens and alcoholics, and a series of Blaschka glass models of the lower invertebrates; several sets of Ziegler wax models and series of sections and other preparations showing the embryology of vertebrates and invertebrates.

In addition to the foregoing, the collections of the State Laboratory of Natural History are available for illustrative purposes, as well as for original investigation by advanced students.

College of Commerce and Business Administration

Commerce.—For its courses in industrial economics and commerce the University has a collection of the materials of commerce; lanterns and several hundred slides; political and industrial maps; and diagrams and stereoscopic views illustrating phases of commerce and industry. Most of the articles constituting the commercial museum are the gifts of the Philadelphia Commercial Museum and of private manufacturing and mercantile establishments.

College of Engineering

The several departments of the College of Engineering possess collections of historic materials drawn from their respective fields of practise. The department of railway engineering maintains exhibits of track rails typifying practise since the beginning of railway construction; many details employed in car and locomotive construction, historic and modern; and an extensive collection of photographs and prints. The department of mechanical engineering is the custodian of a 600 h.p. vertical triple-expansion engine, direct connected to an electric generator, a type of machine in common use for power station service twenty years ago, and numerous machines of historical value together with a collection of exhibits of engineering apparatus. The departments of civil engineering and theoretical and applied mechanics maintain exhibits of tested specimens and structures. The department of architecture has a number of reproductions of fragments from historic architectural monuments.

All such material occupies temporary locations. No especially appointed building designed for its reception has thus far been provided.

College of Agriculture

The agricultural departments maintain collections illustrative of their work; among which are specimens of standard varieties of corn; wax models of fruit and vegetables; a horticulture herbarium; specimens of breeds of live stock; a collection of farm machinery; and exhibits of negatives and samples showing the progress of investigations with fruit, crops, and soils.

See further the description of the facilities for instruction and methods of work of the departments of agronomy, animal husbandry, dairy husbandry, and horticulture, under the College of Agriculture, in Part II.

Library School

The School has made a collection of books and pamphlets on library science; of library reports and catalogs; of mounted samples showing methods of administration in libraries; and of books, photographs, and lantern slides illustrating the history of books, printing, and libraries.

ADMINISTRATION

GOVERNMENT

The government of the University is vested by law primarily in a Board of Trustees, consisting of twelve members. The Governor of the State, the Superintendent of Public Instruction, and the President of the State Board of Agriculture are members *ex officio*. The other nine members are elected by the people of the State for terms of six years; the terms of three members expire every second year.

The administration of the University is vested by the Board of Trustees in the President of the University, the Vice-President, the Senate, the Council of Administration, the Faculties of the several colleges, and the Deans of the colleges and Directors of the schools.

The President is the administrative head of the University.

The Senate is composed of the full professors and those other members of the faculty who are in charge of separate departments of the various colleges and schools. It is charged with the direction of the general educational policy of the University.

The Council of Administration is composed of the President, the Vice-President, the Dean of the Graduate School, the Deans of Men and Women, and the Deans of the several colleges. It constitutes an advisory board to the President, and has exclusive jurisdiction over all matters of discipline. The Council does not determine educational policy; but when any matter arises which has not been provided for by common usage or by rule of the Senate and cannot be conveniently laid over until the next meeting of the Senate, the Council may act on the same according to its discretion.

The Faculties of the colleges and schools of the University, composed of the members of the corps of instruction of these colleges and schools, have jurisdiction, subject to higher University authority, over all matters which pertain exclusively to these organizations.

The Dean of the Graduate School, the Deans of the several colleges, and the Directors of the schools are responsible for the carrying out of all University regulations within their respective departments.

DEPARTMENTS AND COURSES

For the purpose of administration the University is divided into several colleges and schools. These are not educationally separate, but are interdependent and form a single unit.

The colleges and schools are as follows:

I. The College of Liberal Arts and Sciences
II. The College of Commerce and Business Administration
III. The College of Engineering
IV. The College of Agriculture
V. The Graduate School
VI. The Library School
VII. The School of Music
VIII. The School of Education
IX. The School of Railway Engineering and Administration.

X. The College of Law
XI. The College of Medicine
XII. The College of Dentistry
XIII. The School of Pharmacy

The College of Liberal Arts and Sciences offers curriculums in:—(1) philosophy and arts, including (a) the ancient classical languages; (b) the Romance languages; (c) the Germanic languages; (d) the English language and literature, including rhetoric and public speaking; (e) comparative literature; (f) comparative philology; (g) mathematics; (h) the political and social sciences: history, economics, political science, sociology; (i) philosophical subjects: philosophy, psychology, education; (j) art and design. (2) general science, affording opportunity to specialize in (a) astronomy; (b) geology, including mineralogy and geography; (c) physics; (d) chemistry; (e) botany, including bacteriology; (f) zoology; (g) entomology; (h) physiology. By the grouping of certain subjects students in this College are also offered opportunities for specific vocational and professional training as follows: (1) teaching and school administration; (2) journalism; (3) chemistry; (4) chemical engineering; (5) household science and household administration; (6) library administration; (7) law (combined course); (8) medicine (combined course); (9) engineering (combined course).

The College of Commerce and Business Administration offers curriculums in:—(1) general business; (2) commercial and civic secretarial service; (3) banking; (4) insurance; (5) accountancy; (6) general railway administration; (7) railway transportation: (8) commercial teaching; (9) foreign commerce; (10) industrial administration; (11) commerce and law.

The College of Engineering offers curriculums in:—(1) architecture; (2) architectural engineering; (3) ceramic engineering; (4) civil engineering: (5) electrical engineering; (6) mechanical engineering; (7) mining engineering; (8) municipal and sanitary engineering; (9) general engineering physics; (10) railway civil engineering; (11) railway electrical engineering; (12) railway mechanical engineering.

The College of Agriculture offers curriculums in:—(1) agronomy; (2) horticulture, floriculture, and landscape gardening; (3) animal husbandry; (4) dairy husbandry; (5) household science; (6) agricultural extension.

Military science and *physical training* are provided in all the undergraduate colleges in Urbana.

The Graduate School offers courses in:—philology, including the classical languages, Romance languages, Germanic languages, and English; mathematics; political and social sciences, including history, economics, sociology, and political science; philosophy, including psychology and education; physical sciences, including physics, chemistry, astronomy, and geology; biology, including botany, zoology, entomology, physiology, and bacteriology; engineering, including architecture, architectural engineering, ceramic engineering, civil engineering, electrical engineering, mechanical engineering, mechanics, mining engineering, municipal and sanitary engineering, and railway engineering; agriculture, including agronomy, animal husbandry, dairy husbandry, genetics, horticulture and floriculture, and household science.

The Library School offers a professional curriculum of two years in preparation for the librarianship, leading to the degree of Bachelor of Library Science.

The School of Music offers curriculums in vocal and instrumental music, leading to the degree of Bachelor of Music, and provides training in public school methods in music.

The School of Education enrolls, at the beginning of the junior year, students already registered in other colleges of the University who are preparing to teach, and directs their work for the remaining two years.

The School of Railway Engineering and Administration offers curriculums leading to the degree of Bachelor of Science in railway civil, railway electrical, and railway mechanical engineering; and also curriculums in railway transportation and in railway administration, leading to the degree of Bachelor of Arts.

The College of Law offers curriculums of three years and four years leading to the degree of Bachelor of Laws.

Students holding the bachelor's degree in arts or science may become candidates in this College for the degree of Doctor of Law (J.D.)

The College of Medicine (Chicago) requires for admission two years of college work in liberal arts and sciences, and offers a four-year curriculum; at the end of the first two years the degree of Bachelor of Science is conferred, and at the end of the four years the degree of Doctor of Medicine. (For students matriculating in the College after July 1, 1917, and graduating after June 30, 1922, the completion of a year of hospital service is required for the degree of Doctor of Medicine).

The College of Dentistry (Chicago) offers a four-year curriculum leading to the degree of Doctor of Dental Surgery.

The School of Pharmacy (Chicago) offers a curriculum of two years leading to the degree of Graduate in Pharmacy, and a curriculum of three years leading to the degree of Pharmaceutical Chemist.

The Summer Session, of eight weeks, offered in 1917, courses in accountancy, agriculture, art and design, botany, chemistry, drawing (general engineering), economics, education, English, entomology, French, German, history, household science, Latin, library science, manual training, mathematics, mechanical engineering, mechanics (theoretical and applied), microscopical technics, music. physical training for men and for women, physics, political science, psychology, rhetoric, sociology, and zoology.

All the courses given in the Summer Session are of collegiate grade and may be counted toward the bachelor's degree. Certain advanced courses may be counted toward the master's degree.

ADMISSION

GENERAL STATEMENT

An applicant for admission to any of the colleges or schools of the University must be at least sixteen years of age. Candidates for admission to the College of Dentistry (Chicago) and to the School of Pharmacy (Chicago) must be seventeen years of age.

Women are admitted to all departments under the same conditions and on the same terms as men.

Students may be admitted at any time, but should enter if possible at the beginning of the fall semester (in 1918, September 16), or at the beginning of the spring semester (in 1919, February 3). Students can seldom enter the College of Engineering to advantage except at the opening of the school year in September.

The entrance requirements for the *undergraduate departments*, including the colleges of LIBERAL ARTS and SCIENCES, COMMERCE AND BUSINESS ADMINISTRATION, ENGINEERING, and AGRICULTURE, and the SCHOOL OF MUSIC, amounting in each case to 15 units of high-school work, are stated in detail immediately below.

The School of Music requires collegiate standing in Piano, Voice, or Violin—that is, the equivalent of three years of preparatory study.

The requirements for the PROFESSIONAL DEPARTMENTS are as follows:

For the COLLEGE OF LAW, for admission to the *three-year course*, two years (60 semester hours)[1] of college work in arts, letters, and science in a recognized college or university; for admission to the *four-year course*, one year (30 semester hours)[1] of college work. (See page 199.)

For the LIBRARY SCHOOL, a bachelor's degree in arts, letters, and science from an institution having standards equal to those of the University of Illinois. (See page 184.)

For the COLLEGE OF MEDICINE (Chicago), in addition to 15 units[2] of high-schoo credit, two years (60 semester hours)[1] of college work in an institution having standards equal to those of the University of Illinois. (See page 205.)

For the COLLEGE OF DENTISTRY (Chicago), 15 units[2] of preparatory work in an accredited high school or academy or a state normal school, made up as follows: English, 3 units; mathematics, 2 units; physics, 1 unit; electives from lists B and C (see pages 69-70), 6 units; free electives, 3 units. (See page 225.)

For the SCHOOL OF PHARMACY (Chicago), graduation from an accredited high school with 15 acceptable units,[2] or the equivalent. (See page 239.)

ENTRANCE REQUIREMENTS OF THE UNDERGRADUATE COLLEGES

High-School Graduation

A candidate for admission *by certificate* must be a *graduate* of an accredited high school or other accredited school.

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[1] For definition of semester hour, see page 243.
[2] For definition of unit, see page 68.

An applicant who has not been graduated from an accredited school must pass entrance examinations in the following subjects, amounting to 5 units:[1]

English composition	1 unit
Algebra	1 unit
Additional subjects to be designated by the University authorities	3 units
Total	5 units

The remaining 10 units necessary to make up the 15 units required for admission may also be made in entrance examinations or may be offered by certificate from any accredited school.

Number of Units Required

Fifteen units of high-school or other secondary-school work, in acceptable subjects (see Lists A, B, C below), must be offered by every candidate.

Deficiencies

No quantitative conditions are permitted. In other words, every student must offer at the time of admission 15 units in acceptable subjects. These must include the 6 units specifically prescribed for all the undergraduate colleges (see List A below). It is provided, however, that a student who offers 15 acceptable units, including the 6 units of List A, but is deficient not to exceed 2 units in subjects prescribed only for the college or curriculum which he wishes to enter (see below), may be admitted in that college or curriculum to courses for which he is fully prepared, subject to the requirement that the deficiencies in question shall be removed before he may register for a second year's work.

A student with deficiencies is not matriculated and must pay a tuition fee of $7.50 a semester in addition to the regular incidental fee of $15.00 a semester.

Prescribed Subjects

Summary

The 15 units offered for admission must include:

I.	Certain subjects *prescribed alike for all curriculums* (see List A below)	6 units
II.	Certain subjects *prescribed in addition for the individual curriculum* which the student wishes to enter	1 to 4 units
III.	Enough *electives from List B* (below) to make, with the subjects prescribed for all curriculums (List A) and those prescribed for the individual curriculum of the student's choice, a total of 12 units	5 to 2 units
IV.	*Three additional units*, which may be chosen either from List B or from the additional electives of List C (below)	3 units
	Total	15 units

Detailed Statement

I. Units Prescribed for All Curriculums

Of the 15 units required, the following 6 units, constituting List A, are *prescribed* for admission to the freshman class in *all* the undergraduate curriculums of the University, and no substitutes are accepted.

LIST A

English (composition and literature)	3 units
Algebra	1 unit
Plane geometry	1 unit
Physics, or chemistry, or botany, or zoology, or physiology, or physiography, with laboratory work	1 unit
Total	6 units

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[1] A unit is the amount of work represented by the pursuit of one preparatory subject, with the equivalent of five forty-minute recitations a week, through 36 weeks; or, in other words, the work of 180 recitation periods of forty minutes each, or the equivalent in laboratory or other practise.

II. Additional Prescriptions for Individual Curriculums

Of the 9 units that remain, certain others are *prescribed* for admission to *individual curriculums,* and in each case no substitutes are accepted for the curriculum in question. These additional prescriptions are as follows:

For the *General Curriculum,* the *Curriculum in Journalism,* and the *Pre-Legal Curriculum,* in the *College of Liberal Arts and Sciences*—	
Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
For the curriculums in *Household Administration* and for *Household-Science Teachers,* in the *College of Liberal Arts and Sciences*—(See also paragraph 8.)	
Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
Physics	1 unit
For the *Pre-Medical Curriculum,* in the *College of Liberal Arts and Sciences*—	
Latin, Greek, French, or German (both units in the same language)	2 units
American history and civics	1 unit
For the curriculums in *Chemistry* and *Chemical Engineering,* in the *College of Liberal Arts and Sciences*—	
German or French (both units in the same language)	2 units
Science	1 unit
For the *College of Commerce and Business Administration*—	
(a) Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
OR	
(b) Advanced algebra	½ unit
and	
Solid and spherical geometry	½ unit
OR	
(c) Science	1 unit
For the *College of Engineering*—	
Advanced algebra	½ unit
Solid and spherical geometry	½ unit
For the *College of Agriculture,* for the agricultural curriculums—	
Science	1 unit
For the *College of Agriculture,* for the *Curriculum in Household Science*—(See also paragraph 2.)	
Physics	1 unit
For the *School of Music*—	
Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
Music	2 units

III. Electives from List B

Enough electives must be chosen from List B below to make, with the subjects prescribed for all curriculums (List A) and those prescribed for the individual curriculum of the student's choice, a total of 12 units.

It will be seen that the number of such electives from List B required for the several curriculums is as follows:

For the *General Curriculum,* the *Curriculum in Journalism,* and the *Pre-Legal Curriculum,* in the *College of Liberal Arts and Sciences*	4 units
For the curriculums in *Household Administration* and for *Household-Science Teachers,* the *Pre-Medical Curriculum,* and the curriculums in *Chemistry* and *Chemical Engineering,* in the *College of Liberal Arts and Sciences*	3 units
For the *College of Commerce and Business Administration*—	
Under option (a)	4 units
Under option (b)	5 units
Under option (c)	5 units
For the *College of Engineering*	5 units
For the *College of Agriculture,* both for the agricultural curriculums and for the *Curriculum in Household Science*	5 units
For the *School of Music*	2 units

LIST B		*Units*
Latin	36 to 144 weeks	1–4
Greek	36 to 108 weeks	1–3
French	36 to 144 weeks	1–4
German	36 to 144 weeks	1–4
Spanish	36 to 144 weeks	1–4
Italian[1]	36 to 72 weeks	1–2
Norwegian[1]	36 to 72 weeks	1–2
Swedish[1]	36 to 72 weeks	1–2
Polish[1]	38 to 72 weeks	1–2
English (4th unit)	36 weeks	1
Advanced algebra	18 or 36 weeks	½–1

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[1] Not accepted in satisfaction of the foreign-language prescription of the College of Liberal Arts and Sciences or of the School of Music, but only as an elective.

Solid geometry	18 weeks	½
Trigonometry	18 weeks	½
History[1]	36 to 144 weeks	1–4
Civics	18 or 36 weeks	½–1
Economics and economic history	18 or 36 weeks	½–1
Commercial geography	18 or 36 weeks	½–1
Astronomy	18 weeks	½
Geology	18 or 36 weeks	½–1
Physiography	18 or 36 weeks	½–1
Physiology	18 or 36 weeks	½–1
Zoology	18 or 36 weeks	½–1
Botany	18 or 36 weeks	½–1
Physics	36 to 72 weeks	1–2
Chemistry	36 to 72 weeks	1–2

IV. Additional Electives: List C

The remaining 3 units may be chosen either from List B above or from List C:

LIST C[2]		*Units*
Agriculture	36 to 108 weeks	1–3
Bookkeeping	36 weeks	1
Business law	18 weeks	½
Commercial arithmetic (taken after algebra and plane geometry)	18 weeks	½
Domestic science	36 to 72 weeks	1–2
Drawing, art and design	18 or 36 weeks	½–1
Drawing, mechanical	18 or 36 weeks	½–1
Manual training[3]	36 to 72 weeks	1–2
Music	36 to 72 weeks	1–2
Shorthand and typewriting[4]	36 or 72 weeks	1–2

Summary of Courses

The requirements stated above may be summarized by colleges and curriculums as follows:

For the *General Curriculum*, the *Curriculum in Journalism*, and the *Pre-Legal Curriculum*, in the *College of Liberal Arts and Sciences*—

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescription for these curriculums—	
	Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
III.	Electives from List B	4 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

For the curriculums in *Household Administration* and for *Household-Science Teachers*, in the *College of Liberal Arts and Sciences*—

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescriptions for these curriculums—	
	Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
	Physics	1 unit
III.	Electives from List B	3 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

For the *Pre-Medical Curriculum*, in the *College of Liberal Arts and Sciences*—

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescriptions for this curriculum—	
	Latin, Greek, French, or German (both units in the same language)	2 units
	American history and civics	1 unit
III.	Electives from List B	3 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

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[1] Greek and Roman history, 1 unit; medieval and modern history, 1 unit; English history, ½ or 1 unit; American history, ½ or 1 unit.

[2] The subjects named in List C must be taught in accordance with specifications which are set forth in the High-School Manual. Further information may be had on application to the High-School Visitor.

[3] In giving credit for manual training the University specifies that the work is to be done by competent teachers, as determined by inspection, and that credit shall not exceed one unit for 360 forty-minute periods of work, including the necessary drawing and shop work.

[4] These two subjects must be offered together; no credit is given for either one offered separately.

For the curriculums in *Chemistry* and *Chemical Engineering*, in the *College of Liberal Arts and Sciences*—

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescriptions for these curriculums—	
	German or French (both units in the same language)	2 units
	Science	1 unit
III.	Electives from List B	3 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

For the *College of Commerce and Business Administration*—

OPTION (A)

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescription for this College under this option—	
	Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
III.	Electives from List B	4 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

OPTION (B)

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescriptions for this College under this option—	
	Advanced algebra	½ unit
	Solid and spherical geometry	½ unit
III.	Electives from List B	5 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

OPTION (C)

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescription for this College under this option—	
	Science	1 unit
III.	Electives from List B	5 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

For the *College of Engineering*—

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescriptions for this College—	
	Advanced algebra	½ unit
	Solid and spherical geometry	½ unit
III.	Electives from List B	5 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

For the *College of Agriculture*, for the agricultural curriculums—

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescription for these curriculums—	
	Science	1 unit
III.	Electives from List B	5 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

For the *College of Agriculture*, for the *Curriculum in Household Science*—

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescription for this curriculum—	
	Physics	1 unit
III.	Electives from List B	5 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

For the *School of Music*—

I.	List A (prescribed for all curriculums)	6 units
II.	Special prescriptions for this School—	
	Latin, Greek, French, German, or Spanish (both units in the same language)	2 units
	Music	2 units
III.	Electives from List B	2 units
IV.	Electives from either List B or List C	3 units
	Total	15 units

METHODS OF ADMISSION

The credits required for admission to the undergraduate departments, as detailed above, may be secured:

(a) By *examination.*
(b) By *certificate* from an accredited high school or other secondary school.
(c) By *transfer* from another university or college of recognized standing.

(A) ADMISSION BY EXAMINATION

I. The University Entrance Examinations

The University entrance examinations are given at the University in Urbana (in Room 100 Commerce Building) three times in each year: in September, immediately before the opening of the fall semester; in January and February, shortly before the opening of the spring semester; and in July, during the Summer Session.

These examinations cover all the subjects required or accepted for admission, as outlined in the "Description of Subjects Accepted for Admission" on page 80.

For programs of these three sets of examinations for 1918-19 see pages 75-76.

II. The Examinations of the College Entrance Examination Board

The certificate of the College Entrance Examination Board, showing a grade of 60 per cent or higher, will be accepted for admission in any subject in the lists on pages 68, 69, and 70 in the amounts there specified as being acceptable. These examinations will be held during the week of June 17-22, 1918.

All applications for examination must be addressed to the Secretary of the College Entrance Examination Board, 431 West 117th Street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board on application.

Applications for examination at points in the United States east of the Mississippi River, and at points on the Mississippi River, must be received by the Secretary of the Board at least three weeks in advance of the examinations, that is, on or before Monday, May 27, 1918; applications for examination elsewhere in the United States or in Canada must be received at least four weeks in advance of the examinations; that is, on or before Monday, May 20, 1918; and applications for examination outside of the United States and Canada must be received at least six weeks in advance of the examinations; that is, on or before Monday, May 6, 1918.

Applications received later than the dates named will be accepted when it is possible to arrange for the admission of the candidate concerned, but only on payment of $5.00 in addition to the usual fee.

The examination fee is $5.00 for all candidates examined at points in the United States and Canada, and $15.00 for all candidates examined outside of the United States and Canada. The fee (which cannot be accepted in advance of the application) should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board.

A list of the places at which examinations are to be held by the Board in June, 1918, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

III. The New York Regents' Examinations

Credits will be accepted, also, from the examinations conducted by the Regents of the University of the State of New York.

(B) ADMISSION BY CERTIFICATE FROM AN ACCREDITED PREPARATORY SCHOOL

Blank certificates for students wishing to enter the University by *certificate* from an accredited high school or academy may be had of the Registrar. They should be obtained early and should be filled out and sent to the Registrar for approval as soon as possible after the close of the high-school year in June. Certificates received at the University after September 13 (in 1918) will be held until the arrival of the student unless such certificates are accompanied by an addressed envelope with a special delivery stamp.

Accredited Schools

The High-School Visitor of the University visits and inspects, on request, high schools and other preparatory schools throughout the State. On the basis of his reports, approved by the Committee on Accredited Schools and by the Council of Administration, the University accredits all work which is found to be sufficiently well done. For a list of accredited schools, correct to February 15, 1918, see page 77. Not all the schools named in this list, however, are accredited for the same amount of work nor all for the same subjects. A student presenting a certificate from any one of these schools will be given entrance credit for all the subjects named therein *for which the school is specifically accredited as shown in the certificate of its accredited relation issued to the school by the University.*

Entrance credits will also be accepted on certificate from the following sources:

1. From schools accredited by the North Central Association of Colleges and Secondary Schools.
2. From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools, provided the certificate shows that the Illinois standard time requirements have been met.
3. From schools approved by the New England College Entrance Certificate Board.
4. From high schools and academies registered by the Regents of the University of the State of New York.
5. From the state normal schools of Illinois and other state normal schools having equal requirements for graduation.

Foreign Students

Candidates for admission who come from foreign countries should bring complete official credentials. Certificates from oriental countries should be accompanied by certified translations. Upon arriving at the University foreign students should consult with the Adviser to Foreign Students, Room 153, Administration Building.

Examination in Rhetoric 1

Those students who show by examination a proficiency in composition sufficient to qualify them for the second semester's work in rhetoric (Rhetoric 2) may be excused from the first semester's work (Rhetoric 1). An examination to test such proficiency will be given at 7:00 p. m., on the first day of registration (in 1918, September 16), The results of this examination will be announced the following morning. Students who try this examination should defer their registration until they learn whether or not they have passed in the examination.

(C) ADMISSION BY TRANSFER OF ENTRANCE CREDITS FROM OTHER COLLEGES OR UNIVERSITIES

A person who has been admitted to another college or university of recognized standing will be admitted to this University upon presenting a certificate of honorable dismissal from the institution from which he comes and an official statement of the subjects upon which he was admitted to such institution, provided it appears that the subjects are those required here for admission by examination or real equivalents. No substitutes will be accepted for the subjects *prescribed* for all colleges or for individual colleges as indicated above (pages 68-71).

For admission to advanced standing by transfer of college credits see page 75 below.

Students intending to transfer to the University of Illinois should send an official statement of their college credits, accompanied by a summary of their preparatory work and by a letter of honorable dismissal, to the Registrar as early in the summer as possible.

ADMISSION AS SPECIAL STUDENTS

Persons over twenty-one years of age may be admitted as special students, provided they secure (1) the recommendation of the instructor whose work they wish to take, and (2) the approval of the dean of the college concerned. They must give evidence that they possess the requisite information and ability to pursue profitably, as special students, their chosen subjects, and must meet the special requirements of the particular college in which they wish to enroll, as stated below.

A special student is not matriculated and must pay a tuition fee of $7.50 a semester in addition to the regular incidental fee of $15.00 a semester.

No one may enroll as a special student in any school or college of the University for more than two years, except by special permission, application for which must be made through the dean of the college.

A person registered as a special student in one college and desiring to take a course in another college of the University must obtain the approval of the dean of the latter college.

Special Requirements of the Colleges and Schools

The College of Liberal Arts and Sciences requires a written application, accompanied by official certificates, indicating the character and extent of the applicant's preparatory work, and showing honorable dismissal from the school last attended. In order that action may be taken on such applications before registration they should be presented at least one week before the beginning of the semester.

The College of Engineering requires that applicants for admission as special students shall satisfy the entrance requirements in mathematics and English (one and one-half years of algebra, one year of plane geometry, one-half year of solid geometry, one year of English composition, and two years of English literature).

The College of Agriculture will receive non-matriculants twenty-one years old or over, provided that if deficient in English as measured by the requirements for matriculation, they shall arrange to carry English as one subject until that deficiency is made good; and provided further, in the case of men, that they shall have had at least two years of experience in practical agriculture.

The Library School requires a written application, accompanied by official certificates, indicating the character and extent of the applicant's preparatory and college work. In order that action may be taken on such applications before registration day, they should generally be presented not later than July 1. It is the practise of this School to admit as *special students* only those persons who, tho unable to meet the formal requirements for entrance, are substantially prepared for thoro and advanced work. Such persons must present evidence of possessing the requisite information and ability to pursue the chosen subjects profitably, and some substitute for the lacking requirements for entrance, such as approved library or teaching experience or foreign travel. Preference will be given to those already engaged in library work, especially in Illinois libraries. Students thus admitted are expected to take all of the course prescribed for those who are candidates for the degree of Bachelor of Library Science, or failing that, as much of the prescribed work as they are prepared for.

ADMISSION TO ADVANCED STANDING

After matriculation, an applicant may secure advanced standing either by examination or by transfer of credits.

1. *By examination*—Advanced standing is granted only by examination unless the applicant is from an approved school.

2. *By transfer of credits*—Credits may be accepted for advanced standing from another university or a college or a junior college of recognized standing or from a state normal school. An applicant for advanced standing by transfer must present a certified record of work done in the institution from which he comes, accompanied by a letter of honorable dismissal. Students intending to transfer to the University of Illinois should send their credentials to the Registrar as early in the summer as possible.

Examinations for advanced standing are given without fee if taken within 60 days after matriculation; if taken later, a fee of $5.00 is charged for each examination.

PROGRAMS OF UNIVERSITY ENTRANCE EXAMINATIONS

The University entrance examinations are given at the University in Urbana (in Room 100, Commerce Building) three times in each year: in September, immediately before the opening of the fall semester; in January and February, shortly before the opening of the spring semester; and in July, during the Summer Session.

The scope of these examinations is indicated in the ' Description of Subjects Accepted for Admission," pages 80-83.

Admission to the examinations is by permit. Permits may be obtained of the Registrar, 156 Administration Building.

Summer Entrance Examinations, July, 1918

History,[1] 1, 2, 3, or 4 units	Sat., July 6,	8:00 a. m.
Civics, ½ unit or 1 unit	Sat., July 6,	10:00 a. m.
Physiology,[2] ½ unit or 1 unit	Sat., July 13,	8:00 a. m.
Commercial geography, ½ unit or 1 unit	Sat., July 13,	8:00 a. m.
Physical geography,[3] ½ unit or 1 unit	Sat., July 13,	10:00 a. m.
Algebra, 1 unit or 1½ units	Sat., July 20,	8:00 a. m.
Plane geometry, 1 unit	Sat., July 20,	8:00 a. m.
Solid and spherical geometry, ½ unit	Sat., July 20,	10:00 a. m.
English literature, 2 units	Sat., July 27,	8:00 a. m.
English composition, 1 unit	Sat., July 27,	10:00 a. m.
Latin, 1, 2, 3, or 4 units	Sat., July 27,	8:00 a. m.
German, 1, 2, 3, or 4 units	Sat., July 27,	8:00 a. m.
Commercial arithmetic, ½ unit	Sat., July 27,	10:00 a. m.

The time for examinations in agriculture, astronomy, bookkeeping, botany,[3] business law, chemistry,[3] domestic science, drawing (freehand or mechanical), economics and economic history, the fourth unit in English, French, geology, Greek, music, physics,[3] Spanish, stenography and typewriting, trigonometry, and zoology[3] will be arranged with candidates.

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[1] Four units may be offered in history, made up from the following: Ancient history to 800 A. D. 1 unit; medieval and modern history, 1 unit; English history, ½ unit or 1 unit; American history, ½ unit or 1 unit.

[2] Notebook required for 1 unit; not required for ½ unit.

[3] Notebook required.

Fall Examinations, September, 1918

Chemistry,[1] 1 unit	Mon., Sept. 9,	1:00 p. m.
Geology, ½ unit or 1 unit	Mon., Sept. 9,	1:00 p. m.
Astronomy, ½ unit	Mon., Sept. 9,	3:30 p. m.
Trigonometry, ½ unit	Mon., Sept. 9,	3:30 p. m.
Commercial arithmetic, ½ unit	Mon., Sept. 9,	3:30 p. m.
History,[2] 1, 2, 3, or 4 units	Tues., Sept. 10,	8:00 a. m.
English literature, 2 units	Tues., Sept. 10,	1:00 p. m.
English composition, 1 unit	Tues., Sept. 10,	3:30 p. m.
Latin, 1st unit, or 2nd unit, or both	Wed., Sept. 11,	8:00 a. m.
Physics,[1] 1 unit	Wed., Sept. 11,	8:00 a. m.
Physical geography,[3] ½ unit or 1 unit	Wed., Sept. 11,	10:30 a. m.
Algebra, 1 unit or 1½ units	Wed., Sept. 11,	1:00 p. m.
Civics, ½ unit or 1 unit	Wed., Sept. 11,	3:30 p. m.
Economics and economic history, ½ unit or 1 unit	Wed., Sept. 11,	3:30 p. m.
Geometry, plane, 1 unit	Thurs., Sept. 12,	8:00 a. m.
Geometry, solid and spherical, ½ unit	Thurs., Sept. 12,	10:30 a. m.
Physiology,[3] ½ unit or 1 unit	Thurs., Sept. 12,	10:30 a. m.
German, 1st unit, or 2nd unit, or both	Thurs., Sept. 12,	1:00 p. m.
German, 3rd unit, or 4th unit, or both	Thurs., Sept. 12,	3:30 p. m.
French, 1st unit, or 2nd unit, or both	Thurs., Sept. 12,	1:00 p. m.
French, 3rd unit, or 4th unit, or both	Thurs., Sept. 12,	3:30 p. m.
Spanish, 1st unit, or 2nd unit, or both	Thurs., Sept. 12,	1:00 p. m.
Business law, ½ unit	Thurs., Sept. 12,	1:00 p. m.
Commercial geography, ½ unit or 1 unit	Thurs., Sept. 12,	3:30 p. m.
Latin, 3rd unit, or 4th unit, or both	Fri., Sept. 13,	8:00 a. m.
Bookkeeping, 1 unit	Fri., Sept. 13,	8:00 a. m.
Botany,[1] ½ unit or 1 unit	Fri., Sept. 13,	8:00 a. m.
Zoology,[1] ½ unit or 1 unit	Fri., Sept. 13,	10:30 a. m.

The time for examinations in agriculture, domestic science, manual training, freehand or mechanical drawing, stenography and typewriting, music, Greek, and the fourth unit in English, will be arranged with applicants.

Midyear Examinations, January and February, 1919

Chemistry,[1] 1 unit or 2 units	Wed., Jan. 29,	8:00 a. m.
Geology, ½ unit or 1 unit	Wed., Jan. 29,	8:00 a. m.
Astronomy, ½ unit	Wed., Jan. 29,	10:30 a. m.
Trigonometry, ½ unit	Wed., Jan. 29,	10:30 a. m.
Commercial arithmetic, ½ unit	Wed., Jan. 29,	10:30 a. m.
History,[2] 1, 2, 3, or 4 units	Wed., Jan. 29,	1:00 p. m.
English literature, 2 units	Thurs., Jan. 30,	8:00 a. m.
English composition, 1 unit	Thurs., Jan. 30,	10:30 a. m.
Latin, 1st unit, or 2nd unit, or both	Thurs., Jan. 30,	1:00 p. m.
Physics,[1] 1 unit	Thurs., Jan. 30,	1:00 p. m.
Physical geography,[3] ½ unit or 1 unit	Thurs., Jan. 30,	3:30 p. m.
Algebra, 1 unit or 1½ units	Fri., Jan. 31,	8:00 a. m.
Civics, ½ unit or 1 unit	Fri., Jan. 31,	10:30 a. m.
Economics and economic history, ½ unit or 1 unit	Fri., Jan. 31,	10:30 a. m.
Geometry, plane, 1 unit	Fri., Jan. 31,	1:00 p. m.
Geometry, solid and spherical, ½ unit	Fri., Jan. 31,	3:30 p. m.
Physiology,[3] ½ unit or 1 unit	Fri., Jan. 31,	3:30 p. m.
German, 1st unit, or 2nd unit, or both	Sat., Feb. 1,	8:00 a. m.
German, 3rd unit, or 4th unit, or both	Sat., Feb. 1,	10:30 a. m.
French, 1st unit, or 2nd unit, or both	Sat., Feb. 1,	8:00 a. m.
French, 3rd unit, or 4th unit, or both	Sat., Feb. 1,	10:30 a. m.
Spanish, 1st unit, or 2nd unit, or both	Sat., Feb. 1,	8:00 a. m.
Business law, ½ unit	Sat., Feb. 1,	8:00 a. m.
Commercial geography, ½ unit or 1 unit	Sat., Feb. 1,	10:30 a. m.
Latin, 3rd unit, or 4th unit, or both	Sat., Feb. 1,	1:00 p. m.
Bookkeeping, 1 unit	Sat., Feb. 1,	1:00 p. m.
Botany,[1] ½ unit or 1 unit	Sat., Feb. 1,	1:00 p. m.
Zoology,[1] ½ unit or 1 unit	Sat., Feb. 1,	3:30 p. m.

The time for examinations in agriculture, domestic science, manual training, freehand or mechanical drawing, stenography and typewriting, music, Greek, and the fourth unit in English, will be arranged with applicants.

LIST OF ACCREDITED SCHOOLS

(*Correct to February 15, 1918.*)

The following high schools, having all the *prescribed* units, and enough others to make up the *required total* of 15 units, are in the list of fully accredited schools.

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[1] Notebook required.

[2] Four units may be offered in history, made up from the following: Ancient history to 800 A. D. 1 unit; medieval and modern history, 1 unit; English history, ½ unit or 1 unit; American history; ½ unit or 1 unit.

[3] Notebook required for 1 unit; not required for ½ unit.

Not all of these schools, however, are accredited for the same amount of work, nor all for the same subjects. A student presenting a certificate from any one of these schools will be given entrance credit for all the subjects named therein *for which the school is specifically accredited, as shown in the certificate of its accredited relation issued by the University.*

The High-School Visitor of the University, on request, inspects high schools not previously accredited, if the request is accompanied by a report of the school which shows that it merits such inspection. The University accredits all work which is thus found to be sufficiently well done. For further particulars address The High-School Visitor, in care of the University of Illinois.

FULLY ACCREDITED SCHOOLS

- Abingdon
  - High School
  - Hedding Col. Acad.
- Albion
- Aledo
  - High School
  - Drury Academy
- Alexis
- Altamont
- Alton
  - High School
  - Western Mil. Acad.
- Altona (*Walnut Grove Tp.*)
- Alvin (*Ross Tp.*)
- Amboy
- Anna
- Arcola Tp.
- Argenta Tp.
- Arlington Heights Tp.
- Armington (*Hittle Tp.*)
- Armstrong Tp.
- Arthur Tp.
- Ashland
- Ashley Tp.
- Ashton
- Assumption Tp.
- Astoria
- Atlanta
- Atwood Tp.
- Auburn Tp.
- Augusta
- Augustana College Academy (*Rock Island*)
- Aurora
  - East High School
  - West High School
  - Jennings Seminary
- Austin High School (*Chicago*)
- Averyville High School (*Peoria*)
- Avon Tp.
- Barrington
- Barry
- Batavia
- Beardstown
- Belleville Tp.
- Bellflower Tp.
- Belvidere
- Bement Tp.
- Benton Tp.
- Bethany Tp.
- Biggsville Tp.
- Bismarck Tp.
- Bloomington
  - High School
  - St. Joseph's Academy
  - St. Mary's High School
- Bloom Tp. (*Chicago Heights*)
- Blue Island Tp.
- Bowen
- Bowen High School (*Chicago*)
- Bradford
- Bradley Poly. Inst. (*Peoria*)
- Bridgeport Tp.
- Buda Tp.
- Bushnell
- Byron
- Cairo
  - High School
  - Summer High School
- Calumet High School (*Chicago*)
- Cambridge
- Camp Point
- Canton
- Carbondale
  - So. Ill. Nor. Univ. H. S.
- Carlinville
- Carl Schurz High School (*Chicago*)
- Carlyle
- Carrollton
- Carterville
- Carthage
  - High School
  - Carthage Col. Acad.
- Casey Tp.
- Central High School (*Peoria*)
- Catlin Tp.
- Centralia Tp.
- Champaign
  - High School
  - St. Mary's High School
- Charleston
- Chatsworth Tp.
- Chebanse Tp.
- Chenoa
- Chester
- Chicago
  - Austin
  - Bowen
  - Calumet
  - Carl Schurz
  - Crane R. T. (Tech.)
  - Englewood
  - Fenger
  - Harrison Tech.
  - Hyde Park
  - Lake View
  - Lane Tech.
  - Lucy Flower Tech.
  - McKinley
  - Marshall
  - Medill
  - Morgan Park
  - Parker
  - Phillips
  - Senn
  - Tilden
  - Tuley
  - Waller
- Chicago Private Schools
  - DePaul University Academy
  - F. W. Parker School
  - Harvard School
  - Kenwood Institute
  - Latin School
  - Loyola Academy
  - Morgan Park Preparatory Schools
  - North Park College Academy
  - St. Ignatius Academy
  - St. Mary's High School

  - St. Stanislaus College Academy
  - Starrett School for Girls
  - University High School
- Chicago Heights
  - Bloom Tp. High School
- Chillicothe Tp.
- Chrisman Tp.
- Cicero
  - J. Sterling Morton Tp.
- Clayton
- Clinton
- Colfax
- Collinsville Tp.
- Crane, R. T. (Tech.) H. S. (*Chicago*)
- Crystal Lake
- Cuba
- Dallas City
- Danville
- Decatur
- Deerfield Township High School (*Highland Park*)
- DeKalb Tp.
- Delavan
- DePaul University Academy (*Chicago*)
- Des Plaines (*Maine Tp.*)
- Divernon Tp.
- Dixon
  - High School
  - North Dixon High School
- Downer's Grove
- Drury Academy (*Aledo*)
- Drummer Tp. (*Gibson City*)
- Dundee
- DuQuoin Tp.
- Dwight Tp.
- Earlville
- East Dubuque
- East High School (*Aurora*)
- East Lynn Tp.
- East Moline Tp.
- East St. Louis
  - High School
  - Lincoln High School
- Edinburg
- Edwardsville
- Effingham
- Eldorado Tp.
- Elgin
  - High School
  - Elgin Jr. College and Academy
- Elizabeth
- Elmhurst
  - High School
  - Evangelical Proseminar
- Elmwood Tp.
- ElPaso Union
- Englewood High School (*Chicago*)
- Equality Tp.
- Eureka
  - Township High School
  - College Prep. School
- Evangelical Proseminar (*Elmhurst*)
- Evanston Tp.
- Fairbury Tp.
- Fairfield
- Farmer City (*Moore Tp.*)
- Farmington
- Fenger High School (*Chicago*)
- Ferry Hall (*Lake Forest*)
- Fisher
- Flora (*Harter-Stanford Tp.*)
- Forrest Tp.
- Franklin Grove
- Freeport
- Fulton
- Galena
- Galesburg
- Galva
- Gardner Tp.
- Geneseo Tp.
- Geneva
- Genoa
- Georgetown Tp.
- Gibson City (*Drummer Tp.*)
- Godfrey (*Monticello Seminary*)
- Golden
- Granite City
- Grayville
- Greenfield
- Greenup
- Green Valley
- Greenview
- Greenville
- Griggsville
- Hall Tp. (*Spring Valley*)
- Hamilton
- Hampshire
- Hanover
- Harlem Consolidated School (*Rockford*)
- Harrisburg Tp.
- Harrison Technical High School (*Chicago*)
- Harter-Stanford Tp. (*Flora*)
- Harvard
- Harvard School (*Chicago*)
- Harvey (*Thornton Tp.*)
- Havana
- Hebron
- Henry Tp.
- Herrin Tp.
- Heyworth
- Highland
- Highland Park (*Deerfield Tp.*)
- Hillsboro
- Hinckley
- Hindsboro Union
- Hinsdale Tp.
- Hittle Tp. (*Armington*)
- Homer
- Hoopeston
- Hume Tp.
- Hutsonville Tp.
- Hyde Park High School (*Chicago*)
- Illiopolis
- Industry Tp.
- Irving
- Jacksonville
  - High School
  - Routt College Academy
  - Whipple Academy
- Jennings Seminary (*Aurora*)
- Jerseyville Tp.
- Johnston City
- John Swaney School (*McNabb*)
- Joint Tp. (*Tiskilwa*)
- Joliet
  - Township High School
  - St. Francis Academy
- J. Sterling Morton Tp. (*Cicero*)
- Kankakee
- Kansas
- Keithsburg
- Kenilworth (*New Trier Tp.*)
- Kenwood Institute (*Chicago*)
- Kewanee
- Kinmundy
- Knoxville
  - High School
  - St. Alban's School
- Lacon Union
- LaGrange (*Lyons Tp.*)
- LaHarpe
- Lake Forest
  - Lake Forest Academy
  - Ferry Hall
- Lake View High School (*Chicago*)
- Lanark
- Lane Technical High School (*Chicago*)
- LaSalle-Peru Tp. (*LaSalle*)
- Latin School (*Chicago*)
- Lawrenceville Tp.
- Lebanon:
  - High School
  - Academy of McKendree College
- Lemont Tp.
- Lena
- LeRoy
- Lewistown
- Lexington
- Libertyville Tp.
- Lincoln
- Lisle:
  - St. Procopius Col. Acad.

Litchfield
Lockport Tp.
Loda
Long View Tp.
Lovington Tp.
McHenry
McKinley High School (*Chicago*)
McLean
McLeansboro
McNabb (*John Swaney School*)
Mackinaw Tp.
Macomb
    Western Ill. Nor. Acad.
Madison
Magnolia
Maine Tp. (*Des Plaines*)
Mansfield
Manteno Tp.
Manual Training High School (*Peoria*)
Marengo
Marion Tp.
Marissa Tp.
Maroa Tp.
Marseilles
Marshall High School (*Chicago*)
Marshall Tp.
Martinsville
Mascoutah
Mason City
Mattoon
Maywood (*Proviso Tp.*)
Mazon Tp.
Medill High School (*Chicago*)
Mendon Tp.
Mendota Tp.
Metamora Tp.
Metropolis
Milford Tp.
Minonk
Moline
Momence
Monmouth
Monticello
Monticello Seminary (*Godfrey*)
Moore Tp. (*Farmer City*)
Morgan Park High School (*Chicago*)
Morgan Park Preparatory Schools (*Chicago*)
Morris
Morrison
Morrisonville
Mound City
Mounds Tp.
Mt. Carmel
Mt. Carroll
    High School
    Frances Shimer School
Mt. Morris
    High School
    Mt. Morris Col. Acad.
Mt. Pulaski Tp.
Mt. Sterling
Mt. Vernon Tp.
Moweaqua
Muncie (*Oakwood Tp.*)
Murphysboro Tp.
Naperville
    High School
    Northwestern Col. Acad.
Nashville
Neoga Tp.
Newman Tp.
Newton
New Trier Tp. (*Kenilworth*)
Nokomis
Normal
    High School
    Univ. High School
North High School (*Dixon*)
North Park College Academy (*Chicago*)
Northwestern College Academy (*Naperville*)
Oakland Tp.
Oak Park and River Forest Tp. (*Oak Park*)
Oakwood Tp. (*Muncie*)
Oblong Tp.
Odell
Olivet (*College Academy*)
Olney Tp.
Onarga
    Township High School
    Grand Prairie Seminary
Oregon
Ottawa Tp.
Palatine Tp.
Palestine Tp.
Pana Tp.
Paris
Parker High School (*Chicago*)
F. W. Parker School (*Chicago*)
Pawnee Tp.
PawPaw
Paxton
Payson
Pecatonica
Pekin
Peoria
    Academy of Our Lady
    Averyville High School
    Bradley Polytechnic Inst.
    Central High School
    Manual Tr. High School
    Spalding Institute
Peotone
Petersburg
Phillips High School (*Chicago*)
Pittsfield
Plano
Pleasant Hill
Pleasant Plains Tp.
Polo
Pontiac Tp.
Potomac Tp.
Princeton Tp.
Princeville
Prophetstown
Proviso Tp. (*Maywood*)
Quincy
    High School
    St. Mary's Academy
Rantoul
Raymond
Richmond
Ridgefarm Tp.
Riverside Tp.
Robinson Tp.
Rochelle
Rock Falls
Rockford
    High School
    Harlem Consolidated School
    St. Thomas School
Rock Island
    High School
    Augustana Col. Acad.
    Villa de Chantal
Rollo Consolidated
Roodhouse
Roseville Tp.
Rossville
Rushville
Rutland Tp.
St. Anne
St. Charles
St. Elmo
St. Francis Academy (*Joliet*)
St. Ignatius Academy (*Chicago*)
St. Mary's High School (*Bloomington*)
St. Mary's High School (*Chicago*)
St. Procopius College Academy (*Lisle*)
St. Thomas School (*Rockford*)
Salem
Sandwich
Savanna Tp.
Saybrook
Senn High School (*Chicago*)
Sheffield
Shelbyville
Sheldon
Sidell Tp.
Southern Illinois Normal Univ. High School (*Carbondale*)
Spalding Institute (*Peoria*)
Sparta Tp.

- Springfield
  - High School
  - Ursuline Academy
- Spring Valley
  - Hall Tp.
- Stanford
- Staunton
- Sterling Tp.
- Stockland Tp.
- Stockton
- Stonington
- Streator Tp.
- Stronghurst
- Sullivan Tp.
- Sycamore
- Taylorville Tp.
- Thebes Tp.
- Thornton Tp. (*Harvey*)
- Tilden High School (*Chicago*)
- Tiskilwa (*Joint Tp.*)
- Tolono
- Toulon Tp.
- Tuley High School (*Chicago*)
- Tuscola
- University High School (*Chicago*)
- Urbana
- Ursuline Academy (*Springfield*)
- Vandalia
- Venice
- Vermilion Grove
  - Vermilion Academy
- Vermont
- Vienna Tp.
- Villa de Chantal (*Rock Island*)
- Villa Grove Tp.
- Virden Tp.
- Virginia
- Waller High School (*Chicago*)
- Walnut
- Walnut Grove Tp. (*Altona*)
- Warren
- Warsaw
- Washburn Tp.
- Washington
- Waterloo
- Waterman
- Watseka
- Waukegan Tp.
- Waverly Tp.
- Wellington Tp.
- Wenona
- West Chicago
- West High School (*Aurora*)
- Western Illinois Normal Academy (*Macomb*)
- Western Military Academy (*Alton*)
- Westfield Tp.
- Westville Tp.
- Wethersfield Tp. (*Kewanee P. O.*)
- Wheaton
  - High School
  - College Academy
- Whipple Academy (*Jacksonville*)
- White Hall
- Wilmington
- Winchester
- Wood River
- Woodstock
- Wyoming
- Yates City Tp.
- Yorkville

PARTIALLY ACCREDITED SCHOOL

- East St. Louis
  - Lincoln High School

DESCRIPTION OF SUBJECTS ACCEPTED FOR ADMISSION

The amount of work in each of the foregoing subjects which corresponds to the minimum number of credits assigned is shown by the description of subjects below.

1. Agriculture.—Courses in agriculture should be arranged for periods of not less than 36 weeks. Such a course may be accepted for one unit of entrance credit, and two such courses may be accepted for two units, provided the work covered by each course is so closely related in its parts as to constitute one of the generally accepted divisions now recognized in agricultural work. At least one-half the time should be devoted to laboratory work, and note-books should be presented.

2. Algebra, *One and one-half units.*—Fundamental operations, factoring, fractions, simple equations, extraction of roots, radicals, quadratic equations and equations reducible to quadratic form, surds, theory of exponents, proportion and variation, logarithms, and the analysis and solution of problems involving these principles.

Algebra, *One unit.*—Fundamental operations, factoring, fractions, simple equations, extraction of roots, radicals of second order, fractional exponents, variation and proportion, quadratics, including completing the square and simultaneous equations having one quadratic and one linear equation and quadratic systems of simple form. See High School Manual for detailed outline.

3. Astronomy.—In addition to a knowledge of the descriptive matter in a good text-book, there must be some practical familiarity with the geography of the heavens, with the various celestial motions, and with the positions of the conspicuous naked-eye heavenly bodies.

4. Bookkeeping.—The unit of work in bookkeeping for college entrance should aim to give a working knowledge of double entry bookkeeping, consisting of the fundamental principles, with particular emphasis on the study of business transactions and their interpretation in the ledger accounts, through the media known as books of original entry. The student should be drilled in the making of simple trading and profit and loss statements and of balance sheets, and should be able to explain the meanings of the items involved in both. The work should be done under the immediate supervision of a teacher, and the student should devote at least ten periods of not less than forty minutes full time in class each week for one academic year.

5. Botany.—A familiar acquaintance with the general structure of plants and of the principal organs and their functions, deprived to a considerable extent from a study of the objects, is required; also a general knowledge of the main groups of plants; and the ability to classify and name the more common species. Laboratory note-books and herbarium collections should be presented.

6. Business Law.—The amount of business law which is accepted is indicated by the ground covered in any of the ordinary text-books on the subject, such as Spencer's Elements of Commercial Law, Burdick's Business Law, and White's Elements of Commercial Law.

7. Chemistry.—The instruction must include both text-book and laboratory work. The work should be so arranged that as least one-half of the time shall be given to the laboratory. The course as is given in the best high schools in one year will satisfy the requirements of the University for the one unit for admission. The laboratory notes, bearing the teacher's indorsement, must be presented as evidence of the actual laboratory work accomplished. Candidates for admission may be required to demonstrate their ability by laboratory tests.

8. Civics.—Such an amount of study of the American Government, its history and interpretation, as is indicated by any of the usual high-school text-books on civil government, is regarded as sufficient for one term. The work may advantageously be combined with the elements of political economy.

9. Commercial Arithmetic.—The amount of work to be covered is represented by that found in any of the ordinary first-class texts on the subject, such as Finney's, Bookman's, Rowe's "New Essentials," Thurston's, and Baker's. Instruction should constantly attempt to emphasize the relation of arithmetic to business customs and procedures.

10. Commercial Geography.—The amount and character of the work accepted in this subject is indicated by the scope of such books as Redway's Commercial Geography, Adam's smaller book on the same subject, the text-books of Brigham, or Robinson, or Trotter's work.

11. Domestic Science.—(a) An equivalent of 180 hours of prepared work with at least two recitation periods a week in foods. (b) An equivalent of 180 hours of prepared work with at least one recitation period a week in clothing. (c) An equivalent of 180 hours of prepared work with at least two recitation periods a week on the home. (Two periods of laboratory work are considered equivalent to one period of prepared work.) Of the foregoing (a) will be accepted as a unit's work; or two half units taken from (a) and (b), or (a) and (c), or (b) and (c) will be accepted as a unit's work. The work is to done by trained teachers with individual equipment, as determined by inspection.

12. Drawing.—Free-hand or mechanical drawing, or both. Drawing-books or plates must be submitted. The number of credits allowed depends on the quantity and quality of the work submitted.

13. Economics.—The principles of economics, with economic history, as given in any good elementary text-book.

14. English Composition and Rhetoric.—Correct spelling, capitalization, punctuation, paragraphing, idiom and definition; the elements of rhetoric. The candidate will be required to write two paragraphs of about one hundred fifty words each to test his ability to use the English language. This work counts for one unit.

15. English Literature.—(a) Each candidate is expected to have read certain assigned literary masterpieces, and will be subjected to such an examination as will determine whether or not he has done so. With a view to a large freedom of choice, the books provided for reading are arranged in the following groups from which at least ten units are to be selected, two from each group. Each unit is here set off by semicolons.

I. The Old Testament, comprising at least the chief narrative episodes in Genesis, Exodus, Joshua, Judges, Samuel, Kings, and Daniel, together with the books of Ruth and Esther; the Iliad, with the omission, if desired, of Books XI, XIII, XIV, XV, XVII, XXI; the Odyssey, with the omission, if desired, of Books I, II, III, IV, V, XV, XVI, XVII; Virgil's Aeneid. The Iliad, the Odyssey, and the Aeneid should be read in English translations of recognized literary excellence.

For any unit of this group a unit from any other group may be substituted.

II. Shakespeare's Merchant of Venice; Midsummer Night's Dream; As You Like It; Twelfth Night; Henry the Fifth; Julius Caesar.

III. Defoe's Robinson Crusoe, Part I; Goldsmith's Vicar of Wakefield; Scott's Ivanhoe or Quentin Durward; Hawthorne's House of Seven Gables; Dickens' David Copperfield or Tale of Two Cities; Thackeray's Henry Esmond; Mrs. Gaskell's Cranford; George Eliot's Silas Marner; Stevenson's Treasure Island.

IV. Bunyan's Pilgrim's Progress, Part I; Sir Roger de Coverley Papers in the Spectator; Franklin's Autobiography (condensed); Irving's Sketch Book; Macaulay's Essays on Lord Clive and Warren Hastings; Thackeray's English Humorists; selections from Lincoln, including the two Inaugurals, the Speeches in Independence Hall and at Gettysburg, the Last Public Address, and the Letter to Horace Greeley, with a brief memoir or estimate; Parkman's Oregon Trail; either Thoreau's Walden or selection from Huxley's Lay Sermons; Stevenson's Inland Voyage and Travels with a Donkey.

V. Palgrave's Golden Treasury (First Series), Books II and III, with especial attention to Dryden, Collins, Gray, Cowper, Burns; Gray's Elegy in a Country Churchyard and Goldsmith's Deserted Village; Coleridge's Ancient Mariner and Lowell's Vision of Sir Launfal; Scott's Lady of the Lake; Byron's Childe Harold, Canto IV, and Prisoner of Chillon; Palgrave's Golden Treasury (First Series) Book IV, with especial attention to Wordsworth, Keats, and Shelley; Poe's Raven, Longfellow's Courtship of Miles Standish, Whittier's Snow Bound; Macaulay's Lays of Ancient Rome and Arnold'sSohrab and Rustum; Tennyson's Gareth and Lynette, Lancelot and Elaine, The Passing of Arthur; Browning's Cavalier Tunes, The Lost Leader, How They Brought the Good News from Ghent to Aix, Home Thoughts from Abroad, Home Thoughts from the Sea, Incident of the French Camp, Herve Riel, Pheidippides, My Last Duchess, Up at a Villa—Down in the City.

(b) In addition to the foregoing the candidate will be required to present a careful, systematic study, with supplementary reading, of the history of either English or American literature.

(c) The candidate will be examined on the form and substance of certain books in addition to those named under (a). For 1918 the books will be selected from the list below. The examination will be of such a character as to require a minute study of each of the works named in order to pass it successfully. The list is:

Shakespeare's Macbeth; Milton's Comus, L'Allegro, and Il Penseroso; Burke's Speech on Conciliation with America, or Washington's Farewell Address and Webster's First Bunker Hill Oration; Macaulay's Life of Johnson, or Carlyle's Essay on Burns.

The work outlined in (a), (b), and (c) counts for two units.

(d) The three units in English composition, rhetoric, and literature, as described above, are required for all students. A fourth unit may be obtained for one full year's additional work in the study of English and American authors.

16. French, *First year's work.*—Elementary grammar, with the more common irregular verbs. Careful training in pronunciation. About 100 pages of easy prose should be read. *Second year's work.*—Advanced grammar, with all the irregular verbs. Elementary composition, and conversation. About 300 pages of modern French should be read. *Third year's work.*—Intermediate composition, and conversation. About 500 pages of standard authors should be read, including a few classics. *Fourth year's work.*—Advanced composition, and conversation. Standard modern and classical authors should be read and studied to the extent of 700 pages.

17. GEOLOGY.—For one unit, the equivalent of a year's work as conducted in first-class high schools. Such a course includes the thoro study of one of the more abbreviated modern text-books of geology, a generous amount of laboratory work on specimens, maps, models, etc., and wherever possible, several field trips. When available, laboratory note-books should be presented.

18. GEOMETRY.—(a) *Plane Geometry.* Special emphasis is placed on the ability to use propositions in the solution of original numerical exercises and of supplementary theorems.

(b) *Solid and Spherical Geometry.* Applications to the solution of original exercises are emphasized.

19. GERMAN.—Pupils should be trained to understand spoken German and to reproduce freely in writing and orally what has been read. A thoro knowledge of grammar is expected. No attempt is made in what follows to give more than a general outline for the work of successive years. *First year's work.*—At the end of the year pupils should be able to read intelligently and with accurate pronunciation simple German prose, to translate it into idiomatic English, and to answer in German easy questions on the passage read. A few short poems may be memorized. Elementary grammar should be mastered up to the subjunctive. Easy prose composition rather than the writing of forms will be the test of the grammatical work in entrance examinations. *Second year's work.*—Only modern writers should be read, preference being given to material which has a distinctly German atmosphere and which lends itself to conversational treatment in the class room. The recitations should afford constant oral and written drill on the elementary grammar of the previous year. The beginner's book should be completed, but more importance is attached to accuracy and facility in simple modes of expression than to a theoretical knowledge of advanced syntax. *Third year's work*—Most of the time should still be devoted to modern prose. There should be some work in advanced prose composition—based on German models—and the recitations should continue to afford abundant oral practise. Pupils ought by this time to understand spoken German *Fourth year's work.*—At the end of this year a pupil should be able to read at sight any prose or verse of moderate difficulty, and be able to express himself orally or in writing with readiness and accuracy. Work in composition should take the form of free reproduction of portions of the texts studied rather than translation of English selections. The reading should be divided about equally between modern and classical authors.

20. GREEK. *First year's work.*—The exercises in any of the beginning books, and one book of the Anabasis or its equivalent. *Second year's work.*—Two additional books of the Anabasis and three of Homer, or their equivalents, together with an amount of Greek prose composition equal to one exercise a week for one year. *Third year's work.*—Three additional books of the Iliad, three of the Odyssey, and Books VI, VII, VIII of Herodotus, or an equivalent from other authors.

21. HISTORY.—One, two, or three units may be presented, to be chosen from the following list: Ancient history to 800 A. D., one unit; Medieval and modern history, one unit; English history, one half or one unit; American history, one-half or one unit.

Examinations for entrance will be given in all these subjects. The examination for each unit is intended to cover one full year of high-school work.

22. LATIN. *First year's work.*—Such knowledge of inflections and syntax as is given in any good preparatory Latin book, together with the ability to read simple fables and stories. *Second year's work*—Four books of Caesar's Gallic War, or its equivalent in Latin of equal difficulty; the ability to write simple Latin based on the text. *Third year's work.*—Six orations of Cicero; the ability to write simple Latin based on the text; the simpler historical references and the fundamental facts of Latin syntax. *Fourth year's work.*—Six book's of Virgil's Aeneid, with history and mythology; the scansion of hexameter verse.

23. MANUAL TRAINING.—The requirement for one unit is the equivalent of 360 forty-minute periods in manual training following the syllabus prepared by the manual-training section of the High School Conference.

24. MUSIC.—Credit in harmony and musical appreciation, one unit or two units, is acceptable by certificate, from schools accredited therefor, for admission to all departments of the University. To be acceptable, courses in these branches must represent the full equivalent of the following outline adopted by the University of Illinois High School Conference:

Harmony, one unit. First Year. A minimum of two periods of prepared work per week: elements of musical notation; construction of major and minor scales; keys; signatures; intervals; general and specific; key relationships; consonances and dissonances; triads, primary and secondary; inversions of triads; chord progressions; simple melodies harmonized with tonic dominant and sub-dominant harmonies; harmonic analysis; original work. *Second Year.* A minimum of three periods of prepared work per week; review of triads; seventh chords, primary and secondary; non-harmonic tones; chromatic chords; sequences, melodic and harmonic; diatonic modulations; harmonic analysis; original work.

Musical Appreciation, one unit. A minimum of two periods of prepared work per week for one year and a minimum of three periods of prepared work per week for a second year: based upon the standard choruses and instrumental selections from the works of the great composers of each epoch; to include additional instruction in theory, sight-singing, ear-training, musical forms, and the construction of lyric melody, including two and three period song forms; opera, oratorio, instrumental forms, early dances, suite, rondo, sonata, symphony, and modern composition; analysis and musical history.

For admission to the School of Music only, two units in "practical" music, i. e., piano, voice, or violin, are required. Students obtain credits in this "practical" music by examination. In the examination for two units in *piano*, students are required to play the following or the equivalent: Simple scales and arpeggios at fairly rapid tempo; sacles in double octaves at a moderate speed; Bach, two-part invention; Czerny, Op. 229; an easy sonata of Hadyn, Mozart, or Beethoven. In the examination for two units in *voice*, students are required to sing the following or the equivalent: Simple scales and arpeggios; studies selected from Concorne, Sieber, Panofka, and Panseron; songs selected from Schubert, Schumann, and modern composers. In the examination for two units in *violin*, students are required to play the following or the equivalent: Gordon's Foundation Studies; Hermann's Scale Studies; Wahlfahrt's Etudes, Book I; Kayser's Etudes; Pleyel, Duet; selections from Weiss and Blumenstengel; miscellaneous pieces by Dancia, Papini, Weidig, Sitt, etc.

25. PHYSICS.—One year's high-school work covering the elements of physical science as presented in the best of the current high-school text-books of physics. Laboratory practise in elementary quantitative experiments should accompany the text-book work. The candidate's laboratory note-book will be considered as part of the examination.

26. Physical Geography.—One year's work, fully covering such a text-book as those of R. S. Tarr and W. M. Davis. It is assumed that the recitations have been accompanied by several hours of laboratory work per week on various types of maps, models, etc., as well as by field excursions. Laboratory note-books should be presented for inspection.

27. Physiology.—For one-half unit: The anatomy, histology, and physiology of the human body and the essentials of hygiene, taught with the aid of charts and models to the extent shown in Martin's Human Body (Briefer Course). For more than one-half unit, the course must include practical laboratory work.

28. Shorthand and Typewriting.—These subjects must be taken together; no credit is given for either one by itself. For *one unit*, the time requirement is two periods daily of not less than forty minutes each for one year of thirty-six weeks, and the standard of attainment is 75 words a minute in taking dictation and 25 words a minute in the transcription on the machine of such dictation. For *two units*, the time requirement is two periods daily of not less than forty minutes each for two years of thirty-six weeks, and the standard of attainment is 100 words a minute in taking dictation and 35 words a minute in the transcription on the machine of such dictation. Accuracy in spelling, punctuation, capitalization, and paragraphing should be emphasized; and attention should be given to the care of the machine, methods of copying, manifolding, etc.

29. Spanish, *First year's work.*—Elementary grammar, including thoro drill in the irregular verbs; careful training in pronunciation, and translation of simple Spanish when spoken; reading of about 100 pages of easy prose; simple composition and dictation; *Second year's work.*—In addition to the foregoing, about 300 pages of modern prose; elementary syntax; dictation, composition, and translation of spoken Spanish continued.

30. Trigonometry.—The work should cover the field of plane trigonometry, as given in standard text-books, including the solution of right and oblique triangles. Special emphasis is placed upon the solution of practical problems, trigonometric identities, and trigonometric equations.

31. Zoology.—The instruction must include laboratory work equivalent to four periods a week for a half-year, besides the time required for text book and recitation work. Note-books and drawings must be presented to show the character of the work done and the types of animals studied. The drawings are to be made from the objects themselves, not copied from illustrations, and the notes are to be a record of the student's own observations of the animals examined. The amount of equipment and the character of the surroundings must determine the nature of the work done and the kind of animals studied; but in any case the student should have at least a fairly accurate knowledge of the external anatomy of each of eight or ten animals distributed among several larger divisions of the animal kingdom, and should know something of their life histories and of their more obvious adaptations to environment. It is recommended that special attention be given to such facts as can be gained from a careful study of the living animal. The names of the largest divisions of the animal kingdom, with their most important distinguishing characteristics, and with illustrative examples selected, when practicable, from familiar forms, ought also to be known.

GRADUATION—FIRST DEGREES

THE BACHELOR'S DEGREE

A bachelor's degree is conferred on any student who satisfactorily completes the curriculum described under one of the various colleges and schools, doing either the first three years, or the last year, of his work in residence at the University.

Residence Requirement

If the student is in residence at the University for one year only, that year's work must be taken in the college from which the degree is expected. No person will be recommended for a degree by the faculty of any college in the University unless he has been a regularly registered student in that college for at least one year.

Number of Hours Required

A candidate for a bachelor's degree must pass in the subjects marked *prescribed* in his chosen curriculum, and must conform to the directions given in connection with that curriculum in regard to electives. In the College of Liberal Arts and Sciences, the College of Commerce and Business Administration, and the College of Agriculture, credit for 130 hours is required for graduation. In the College of Engineering, in the College of Law, in the Library School, and in the School of Music, the candidate must complete the curriculum as laid down.

In order to receive his bachelor's degree a student must have secured grades of not less than C in subjects aggregating at least three-fourths of the work, prescribed or elective, required for such degree.

Military Science and Physical Training

The number of hours required includes, for men, five in military drill and tactics and two in physical training; and for women, three in physical training. Men excused from the military requirements, and women who do not take the course in physical training, must elect instead an equivalent number of hours in other subjects.

Thesis

In all cases in which a thesis is required,[1] the subject must be announced not later than the first Monday in November, and the completed thesis must be submitted to the dean of the proper college by June 1. The work must be done under the direction of the professor in whose department the subject belongs, and must be in the line of the curriculum for which a degree is expected. The thesis must be presented on regulation paper; it is deposited in the library of the University.

Degrees Conferred Four Times a Year

The annual commencement exercises are held in June, but degrees may be conferred at other times as follows:

Students who complete their work at the end of the first semester may, on application, be recommended for their degree at the February meeting of the Senate.

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[1] See requirements for graduation in the various colleges.

Students who are to complete their work for the bachelor's or the master's degree in the Summer Session, and who register in advance of the June meeting of the Senate for specified courses in that session which complete the requirements in their cases, may be recommended at the June meeting, subject to the successful completion of the specified courses in the Summer Session.

Students who complete their work at the end of the Summer Session may, on application, be recommended at the October meeting of the Senate.

All graduates are ranked as of the class of the calendar year in which their degrees were conferred, i. e., students who receive their diplomas in August or October, with the class of the preceding June, and those who receive their diplomas in February, with the class of the following June.

Second Bachelor's Degree

A student who has already received one bachelor's degree may receive a second bachelor's degree, provided that all specified requirements for both degrees be fully met, and provided also that the curriculum offered for the second degree include at least 30 semester hours not counted for the first degree.

LIST OF FIRST DEGREES

1. The degree of Bachelor of Arts is conferred on those who complete a curriculum in literature and arts, or certain curriculums in science, in the College of Liberal Arts and Sciences.

2. The degree of Bachelor of Science is conferred on those who complete a curriculum in the College of Engineering, in the College of Commerce and Business Administration, or in the College of Agriculture. This degree is conferred on a graduate of the College of Liberal Arts and Sciences who completes a curriculum in chemistry and may be conferred on graduates from other curriculums in this College on recommendation of the faculty. It may also be conferred on students who offer two years of acceptable college work for admission to the College of Medicine and complete the two years of scientific work in medical subjects and subjects preparatory to medicine which are offered in the Junior College; on the completion of the two additional years in clinical work offered in the Senior College, such students may receive the degree of Doctor of Medicine.

3. The degree of Bachelor of Laws is conferred on those who complete the curriculum in the College of Law.

4. The degree of Doctor of Law is conferred on those who complete the curriculum in the College of Law, satisfying certain special requirements additional to those for the degree of Bachelor of Laws.

5. The degree of Bachelor of Library Science is conferred on those who complete the curriculum in the Library School.

6. The degree of Bachelor of Music is conferred on those who complete one of the curriculums in the School of Music.

7. The degree of Doctor of Medicine is conferred on those who complete the curriculum in the College of Medicine.

8. The degree of Doctor of Dental Surgery is conferred on those who complete the curriculum in the College of Dentistry.

9, 10. The degree of Graduate in Pharmacy, or of Pharmaceutical Chemist, is conferred on those who complete the shorter and the longer curriculums, respectively, in the School of Pharmacy.

HONORS AND COMPETITIONS

UNIVERSITY HONORS

The University gives public official recognition to such students as attain a high grade of scholarship by the following system of honors.

Preliminary Honors

Preliminary Honors are assigned at the completion of the sophomore year on the basis of the average of the grades received during the freshman and sophomore years in all studies except military and physical training. The number of persons to whom honors are awarded may not exceed one-tenth of the membership of the sophomore class. A failure in any subject disqualifies a student from receiving these honors. Preliminary Honors afford an opportunity for sophomores to secure recognition for high scholarship without waiting for graduation.

Final and Special Honors

(*Candidates for the Degrees of B.S., B.Mus., LL.B., and B.L.S.*)

Final Honors are assigned on graduation on the basis of the average grades received during the junior and senior years. The number of persons to whom final honors are awarded may not exceed one-tenth of the membership of the senior class. A failure in any subject during the junior and senior years disqualifies a student from receiving these honors. Final honors are designed especially to favor students whose preparatory education has been so imperfect as to prevent them from receiving preliminary honors.

Special Honors are awarded at the close of the senior year. No student may receive such honors who has not completed, before the beginning of his senior year, at least twenty hours' work in the subject, or group of allied subjects, in which the honors are proposed; he must complete thirty hours' work in the same subject, or group of allied subjects, by the end of his senior year, must do such other work as the professor in charge may assign, and must prepare an acceptable theses. No student is eligible for special honors who, during the senior year, has received a grade of less than C in any subject. Special honors are planned for especially brilliant students who prefer to concentrate their efforts on a special course. A student may be a recipient of both final and special honors.

The Degree of Bachelor of Arts with Honors

The faculty of the College of Liberal Arts and Sciences has been authorized to recommend candidates for the degree of Bachelor of Arts *with honors* in a particular subject. Candidates for the degree with honors will be recommended by the faculty under the following conditions:

(1) The student must have made A in at least three-fourths, and B in the remainder of the work offered for his major.

(2) He must have completed the work offered for his minor with an average of not less than B.

(3) Each candidate is required to present a thesis in his major subject.

(4) Especially poor or careless work in any other subject may, by vote of the faculty, cause the honor degree to be withheld.

The purpose of these honors is not to encourage premature specialization but to give special recognition to students who have pursued with success correlated courses of study, and to emphasize the importance, for scholarship in any subject, of thoro training in other related subjects. Candidates should announce their intention as early as possible in their college course and consult freely with the head of the department concerned in regard to the selection of their studies.

Candidates for the degree of Bachelor of Science in the College of Liberal Arts and Sciences are eligible for final and special honors under the regulations stated on page 86.

Freshman Honors

(College of Liberal Arts and Sciences)

At the close of each year a list is prepared of those members of the freshman class in the College of Liberal Arts and Sciences who have made an especially good record in scholarship. The names of such students are announced at an assembly of the College; notice is also sent in each case to the parent or guardian, and to the principal of the high school of which the student is a graduate.

List of Honors

The names of the students who received honors under the foregoing regulations during the academic year 1916-17 are published in part VIII of this Register.

DEBATING AND ORATORY

The University engages yearly in four intercollegiate debates, the teams for which are chosen in a series of competitive preliminaries to which all students are eligible. Through the generosity of Hon. William B. McKinley a gold watch-fob is presented to every speaker who represents the University, either in debate or in oratory.

THE *I. M. I.* DEBATING LEAGUE consists of the Universities of Illinois, Minnesota, and Iowa. It holds a debate at each university on the first Friday in December.

THE MIDWEST DEBATING LEAGUE consists of the Universities of Illinois, Michigan, and Wisconsin. It holds a debate at each university on the third Friday in March.

THE NORTHERN ORATORICAL LEAGUE, consisting of Northwestern University, Oberlin College, and the state Universities of Illinois, Iowa, Michigan, Minnesota, and Wisconsin, holds an annual contest on the first Friday evening in May. The contests for 1918 will be held on May 3, at Urbana, Illinois. The winner receives the Lowden testimonial of one hundred dollars, and the speaker awarded second place, fifty dollars. The Illinois representative is selected in competitive contests open to all undergraduates.

THE INTERCOLLEGIATE PEACE ASSOCIATION holds annual state and interstate oratorical contests to which representatives of this University are eligible. Orations must be on some phase of the peace question. Cash prizes are offered in both contests.

A FRESHMAN-SOPHOMORE DEBATE and an INTER-SOCIETY DECLAMATION CONTEST are held yearly.

The Interscholastic Oratorical Prize

A medal of the value of twenty dollars, and two medals of the value of ten dollars each, are offered annually by the University to the high schools of the State for the best orations delivered in a competitive contest between their representatives. This contest takes place in the spring at the time of the interscholastic athletic meet—in 1918, on May 10.

PRIZES IN PUBLIC SPEAKING

The division of Public Speaking gives annually silver cups as first and second prizes to the two graduating seniors who, by representing the University in intercollegiate contests in oratory and debate, have rendered the University the greatest service on the platform. The awards shall be based on participation in a minimum number of debates and on a scale of points won in contests.

THE THACHER HOWLAND GUILD MEMORIAL PRIZE

Friends and admirers of Thacher Howland Guild, instructor and associate in English, 1904-14, have endowed the Thacher Howland Guild Memorial Prize, an annual prize of $25, to be given to the undergraduate student submitting the poem or one-act play which in the opinion of a committee appointed by the department of English shows the greatest originality and literary merit; provided that the award may be withheld in any year if no production deemed worthy of a prize is submitted. The name of the winner of this prize is printed in the commencement program.

ST. PATRICK'S DAY PRIZE

Division One of the Ancient Order of Hibernians offered in the spring of 1916 and again in 1917 a prize of $50 for the best essay by an undergraduate or a graduate student of the University on a subject connected with Ancient Irish literature, history, or archeology. In the fall of 1917 the State Board of Illinois of the Ancient Order of Hibernians guaranteed that the prize would be offered annually. The essay, not less than 5000 words in length, must be submitted one month before Commencement Day. For further information address the chairman of the committee. The committee of award for 1917–18 is: Professor Stuart P. Sherman (chairman); Professor L. M. Larson, and Professor H. S. V. Jones, of the University; Honorable John P. McGoorty of Chicago, and Mr. P. W. Coleman of Bloomington.

THE BRYAN PRIZE

In 1898 Mr. William Jennings Bryan gave to the University the sum of two hundred fifty dollars, from the interest on which a prize of twenty-five dollars is offered biennially for the best essay on the science of government. The contest is open to all matriculated undergraduate students. The essays may not be less than three thousand nor more than six thousand words in length, and must be left at the President's office not later than the second Wednesday in May. The prize was offered for the first time in 1901. It will be offered next in 1919.

B'NAI B'RITH PRIZES

The Champaign and Urbana lodge of the Independent Order of B'nai B'rith has donated to the University, for the year 1917-18, the sum of fifty dollars, to be awarded in prizes to students of the University for essays on Jewish subjects. For information in regard to the conditions governing the awarding of the prizes, address the Registrar, University of Illinois, Urbana, Illinois.

ARCHITECTURE

The Francis J. Plym Fellowship in Architecture

By the generosity of Mr. Francis J. Plym, of Niles, Michigan, a graduate of the University of Illinois of the class of 1897, the Trustees have been enabled to establish a fellowship for the advanced study of architecture. The stipend attached to this fellowship is $1,000, awarded annually by competition in Architectural Design. The holder of the fellowship is required to spend a year in study and travel abroad. For further information address the Department of Architecture. Because of the war, it has been considered inadvisable to hold the competition and award the fellowship in 1917–18.

The American Institute of Architects Medal

The American Institute of Architects offers annually a medal for award to the senior in the department of architecture whose development during the four years' course is the most consistent and best. In making the award the scholarship in all work is considered.

The Scarab Medal in Architecture

The Scarab Society of the department of architecture offers annually a bronze medal to be awarded during the second semester for the best solution of a problem in architectural design, the competition being limited to students in architecture.

THE PRIZE IN ARCHITECTURE of the American Academy in Rome is open for competition among qualified undergraduates and graduates of certain American architectural schools, including that of the University of Illinois. This prize grants three years of residence and travel abroad for the study of classic and renaissance architecture.

MILITARY CONTESTS AND PRIZES

The University Bronze Medals

Bronze medals typical of the University and its Military Department are awarded by the University to the members of the infantry companies and artillery and signal detachments which shall score the greatest number of points at the annual competitive drill, held at some time between May 15 and May 31. The members of the company rifle team making the highest score at gallery target practise are also awarded medals. The medals so awarded become the permanent property of the recipients. A complete roster of the winning organizations is published in the Annual Register of the University for the following year. (See Part VIII.)

The University Gold Medal

The Board of Trustees provides annually a gold medal which is to be awarded at the annual competitive drill held near the close of the year, to the best drilled student, whose property the medal becomes. Each student must have matriculated in the University and must have completed one semester's work in Military 1 with a grade of not less than B, and three semesters' work in Military 2 with a grade of not less than A; and he must have an average standing of not less than C in all of his other studies for the preceding semester, which standing shall be determined by the Registrar. The name of the winner is published in the Annual Register of the University for the following year. The award is made for excellence in the same details as in the Hazelton contest.

The Hazleton Prize Medal

Captain W. C. Hazleton provided in 1890 a medal, which is awarded, at a competitive drill held at some time between May 15 and May 31, to the best drilled student. Each competitor must have been in attendance at the University at least sixteen weeks of the current college year; must have had less than five unexcused absences from drill; and must present himself for competition in full uniform.

The award is made for excellence in:

1. Erectness of carriage, military appearance, and neatness.
2. Execution of the school of the soldier, without arms.
3. Manual of arms, with and without numbers.

The name of the successful competitor is published in the Annual Register of the University for the following year. He is given a certificate setting forth the fact, and may wear the medal until the fifteenth day of the May following, when he must return it for the next competition.

LECTURES AND OTHER GENERAL EXERCISES

A part of the instruction afforded by the University to its students is given through the medium of lectures by distinguished men and women from outside the University faculty and by means of exhibitions, recitals, and other exercises distinct from the regular courses of instruction. A partial list of these exercises for the calendar year 1917 follows. Lectures by members of the University faculty are excluded from this list.

GENERAL UNIVERSITY EXERCISES

Convocations

Apr. 17. UNIVERSITY CONVOCATION: Address by President EDMUND J. JAMES.

Sept. 19. ANNUAL CONVOCATION FOR FRESHMEN.

Oct. 31. UNIVERSITY CONVOCATION: Address by Dean DAVID KINLEY: "America and the War."

Dec. 19. UNIVERSITY CONVOCATION in recognition of war service of members of the University. Addresses by President E. J. JAMES, and Dean T. A. CLARK.

General University Lectures

Feb. 16. BARONESS HUARD: "A year among the fighters."

Mar. 16. Mr. GILBERT McCLURG: "From the shining mountains to the sunset sea."

Mar. 28. Mr. GEORGE BAKER, Treasurer of the Committee on relief for Belgium: "Belgian relief."

Apr. 11. Professor GUSTAVE LANSON, University of Paris: "Les traits caracteristique de l'esprit Francais."

Apr. 30. Mr. L. D. KITCHELL: "Among the Blackfeet in the Glacier National Park."

May 14. Mr. GEORGE E. HALE, Carnegie Observatory, Chairman National Research Council: "The work of the National Research Council." "Whirlwinds and sunspots." (Under the auspices of Sigma Xi and Phi Beta Kappa.)

Oct. 2. Professor WILLIAM H. HALL, Beirut: Armenian and Syrian relief: "Present conditions in the Holy Land."

Dec. 10, 12, 14. Dr. ALEJANDRO ALVAREZ: "The role and influence of America in the reconstruction of international law." "The necessity of unifying the Anglo-American and Latin American schools of international law." "The new Monroe Doctrine and the American public law."

The Star Course

Jan. 16. TILLY KOENEN.

Feb. 12. PORTMANTEAU THEATRE.

Mar. 8. MISCHA ELMAN.

Mar. 19. Mr. STRICKLAND W. GILLILAN.

June 1. GALLI-CURCI.

Oct. 24. ETHEL LEGINSKA.

Nov. 16. Mr. REINWALD WERRENRATH and Mr. LAMBERT MURPHY.

Nov. 26. CHRISTINE MILLER.

Dec. 14. THE BARRERE ENSEMBLE.

University Orchestral Concerts

Jan. 22. The Minneapolis Symphony Orchestra.
Mar. 26. The New York Symphony Orchestra.
Dec. 4. The St. Louis Symphony Orchestra.

Exhibitions

Jan. 1–5. Architectural Exhibition. Fifty charcoal studies lent by Syracuse University.
Jan. 10–16. Architectural Exhibition. Student drawings exhibited at Minneapolis, at the annual convention of the American Institute of Architects.
Feb. 5–17. Architectural Exhibition. Water color studies made by Edmund S. Campbell of Chicago during his study abroad.
Feb. 19–24. Architectural Exhibition. Drawings made by Ralph Adams Cram of Boston for the Champaign Episcopal Church.
Mar. 6–18. Art Exhibit. Paintings by Mr. C. E. Bradbury.
Mar. 12–17. Architectural Exhibition. Sketches made by Theodore Lescher during a trip abroad.
Mar. 26–30. Architectural Exhibition. Preliminary drawings submitted for the Plym Fellowship in Architecture.
Mar. 30. Household Science Open House.
Apr. 12–14. Sixth Electrical Show. An exhibit of electrical apparatus and appliances under the management of the Electrical Engineering Society.
Apr. 16–20. Architectural Exhibition. Winning drawings submitted in the Third Scarab Competition.
Apr. 16–21. French Military Pictures. Showing equipment of the French army during the present war.
Apr. 23–28. Architectural Exhibition. Drawings made by Owen J. T. Southwell for the Beaux Arts Society of Architects in New York.
May 14–19. Architectural Exhibition. Winning drawings by Henry Dubin submitted for the Francis J. Plym Fellowship in Architecture.
May 17–19. Public School Drawing and Manual Training Exhibit.
May 27–31. Art Exhibit, Illinois Centennial Posters.
June 8–15. Architectural Exhibition. Work of students in the Department of Architecture.
Sept. 19–27. Architectural Exhibition. Work done by students in the Department of Architecture.
Oct. 6. Architectural Open House. Presentation of medal given by the American Institute of Architects to C. A. Klein.
Oct. 6–20. Architectural Exhibition. Summer sketches made by faculty.
Oct. 27. M. E. Open House. An exhibit of apparatus and appliances under the management of the Student Branch of the American Society of Mechanical Engineers.
Nov. 1–8. Art Exhibit. Paintings by Mr. Joseph E. Burgess.
Dec. 17–18. Applied Design. Work by students of Mr. G. R. Forbes.

Entertainments

Jan. 12. Entertainment, Chinese Club.
Jan. 19. Band Promenade Concert.
Jan. 24. Concert, University Military Band.
Feb. 6. Post Exam Jubilee.
Mar. 2. Annual Band Concert.
Mar. 24. Mr. Cecil J. Sharp: Demonstration of Folk Dances.

Mar. 28. DRAMATIC HOUR, MASK AND BAUBLE: "The Father."
Mar. 30. WISCONSIN-ILLINOIS DEBATE.
Apr. 13. PLAYERS CLUB: "The Witching Hour."
May 2. DRAMATIC HOUR, MASK AND BAUBLE.
May 8. CONCERT, UNIVERSITY CHORISTERS AND WOMAN'S GLEE CLUB.
May 10. LE CERCLE FRANCAIS: "La Grammaire." "La Poudre aux Yeux."
May 16. CONCERT, UNIVERSITY CHORAL SOCIETY: "The Rose Maiden."
May 17. MAY POLE DANCE.
May 18. INTERSCHOLASTIC ORATORICAL CONTEST.
May 19. GIRLS STUNT SHOW.
June 9. BAND PROMENADE CONCERT.
Oct. 19. MASK AND BAUBLE: "It Pays to Advertise."
Nov. 29. MASQUE OF THE WAR: "The Sword of America."
Dec. 3. ILLINOIS DAY PAGEANT.
Dec. 8. CONCERT, GLEE AND MANDOLIN CLUBS.
Dec. 11. CHRISTMAS CONCERT, CHORAL AND ORCHESTRAL SOCIETIES: "The Messiah."
Dec. 13. IOWA-ILLINOIS DEBATE.
Dec. 15. COUNTRY LIFE CLUB: "Kindling the Hearth Fire."
Dec. 18. DRAMATIC HOUR, MASK AND BAUBLE: "Modesty;" "Rosalie."
Dec. 19. ILLINI MOVING PICTURES: "Racing the Dead Line."

University Christian Associations

Jan. 21. ALL UNIVERSITY SERVICE. Address by Bishop ETHELBERT TALBOT: "Our time, and it's opportunity."
Feb. 5–6. WOMEN'S VOCATIONAL CONFERENCE.
Mar. 18. ALL UNIVERSITY SERVICE. Dr. CHAS. S. MEDBURY, Chaplain of Drake University: "Christianity and the world's new day."
Apr. 15. ALL UNIVERSITY SERVICE. Dr. E. A. STEINER, Grinnell, Iowa.
May 17. LECTURE, Mr. W. W. GETHMAN, State Secretary, Army Y. M. C. A.: "The Y. M. C. A. at work in the army."
May 20. ALL UNIVERSITY SERVICE. Rev. CHAS. W. GILKEY, Chicago: "The responsibility of students in the present crisis."
Oct. 28. ALL UNIVERSITY SERVICE. Dr. J. A. MACDONALD, Toronto: "The neighborhood and the jungle."
Nov. 11. Y. M. C. A. WAR FUND MEETING. Dr. WILLIAM WIRT: "With the armies in Flanders."
Nov. 18. WAR FUND MEETING. Miss ETHEL CONDE.
Nov. 25. ALL UNIVERSITY SERVICE. Right Reverend G. H. SHERWOOD: "Doing our bit—and then some."
Nov. 29. ALL UNIVERSITY THANKSGIVING SERVICE. Rev. ROBERT R. REED: "War time blessings."
Dec. 16. ALL UNIVERSITY SERVICE. Rev. ROY L. SMITH, Chicago: "Superman or Christ-man."

Short Courses and Conventions

Jan. 7–19 SHORT COURSE IN CERAMIC ENGINEERING.
Jan. 7–19. SHORT COURSE IN HIGHWAY ENGINEERING.
Jan. 15–27. SHORT COURSE IN AGRICULTURE.
Jan. 15–26. SHORT COURSE IN HOUSEHOLD SCIENCE.
Jan. 30–Feb. 2. SHORT COURSE IN BUSINESS.

Mar. 13–15. DRAINAGE CONFERENCE.
Apr. 10–12. BETTER COMMUNITY CONFERENCE.
Nov. 22-24. HIGH SCHOOL CONFERENCE.

COLLEGE OF LIBERAL ARTS AND SCIENCES

College Assemblies

Jan. 11. Professor R. C. TOLMAN: "The theory of relativity."
Feb. 15. Professor C. F. HOTTES: "Some recent advances in the physiology of the cell."
Mar. 15. Professor G. M. WHIPPLE: "Recent developments in mental testing."
Oct. 25. Professor L. M. LARSON: "The effect of the Great War on the neutral states of Europe."
Nov. 15. Professor A. H. LYBYER: "The fate of the Near East as involved in the Great War."
Dec. 6. Dean A. W. SMALL, University of Chicago: "What America is fighting for."

College Lectures

Jan. 15. Mr. LORADO TAFT, Chicago Art Institute: "Hellenistic and Roman sculpture."
Jan. 23. Mr. LORADO TAFT: "The Renaissance."
Feb. 13–14. Professor L. C. VAN NOPPEN: "The Dutch poets of today." "The influence of Holland on America."
Feb. 20. Mr. LORADO TAFT: "Michael Angelo."
Mar. 6. Mr. LORADO TAFT: "An evening in a sculptor's studio."
Mar. 9. Dr. BASHFORD DEAN, Columbia University: "Armor, past and present."
Apr. 18–24. Dr. EDGAR J. BANKS, University of Chicago: "Turkey and the Turks. "Bismya or the Lost City of Adab." "The story of Ninevah and Babylon." "Palestine, old and new." "The seven wonders of the ancient world." "Egypt the land of the Pharaohs."

Education

Feb. 8. Mr. A. E. WINSHIP, Editor of the Journal of Education: "Learning to teach."
Apr. 23. Professor H. W. HOLMES, Harvard University: "Education and the hope of permanent peace."

English

Feb. 26. Professor C. W. WALLACE: "The Elizabethan Theatre." "New Shakespeare discoveries."

History and Classics

Feb. 8–9. Professor A. T. OLMSTEAD, University of Missouri: "The last days of Assyrian rule in Babylonia." "Round the Dead Sea in a rowboat." "Greece, Rome, and the Orient."

Geology

Jan. 17–18. Professor E. MARTONNE, University of Paris: "Geography of the battlefields of northern France." "Geography of Roumania and the war."

Zoology

Feb. 7. Mr. ENOS MILLS: "Wild life in the woods."

COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

Jan. 30–Feb. 2. Mr. M. J. Duryea, Secretary, Moline Commercial Club, Moline, Illinois: "The community and the commercial Organization." Mr. Clifton C. Field, The Kepler Company, Eau Claire, Wisconsin: "Retail buying," "The buyer's duties," "The buyer's version of retail selling." Mr. James W. Fisk, Associated Advertising Clubs, Indianapolis, Indiana: "The cost of doing business." Mr. Edward B. Moon, Farmer's Review, Chicago, Illinois: "Mail order competition," "Chain stores," "The use of mailing lists," "Changing conditions and trade possibilities." Mr. Charles E. Spillard, Merchant, Elgin, Illinois: "Managing a sales force."

Apr. 13. Mr. W. J. Wardall, Manager, Bonbright & Company, Chicago, Illinois: "Government bonds," "Selling securities."

Apr. 16. Mr. Hugh B. Baker, Vice-President, The National City Company, New York City, New York: "Industrial and war financing."

Apr. 17. Mr. A. E. Anderson, Anderson, DeLany and Company, Certified Public Accountants, Chicago, Illinois: "Business opportunities."

May 8. Mr. Robert C. Fay, Chicago Paper Company: "Paper as a factor in modern merchandising." "The psychology of modern business letter writing."

May 29. Mr. Harold M. Hess, Manager, Missouri Fire Insurance Inspection Bureau, St. Louis, Missouri: "Schedule rating in the insurance business."

June 26. Mr. W. A. Summerhays, President Railway Storekeepers' Association, Chicago, Illinois: "Emergency handling and storing of materials." Mr. J. G. Stuart, General Storekeeper, C. B. & Q. R. R., and Mr. J. H. Waterman, Superintendent of Timber Preservation, C. B. & Q. R. R.: "Some problems in railway storekeeping."

June 27. Mr. B. S. Culp, Stores Manager, Western Electric Company, Chicago, Illinois: "Storekeeping for a public service corporation."

COLLEGE OF ENGINEERING

College Assemblies

Nov. 10. Mr. H. M. Payne, Consulting Mining Engineer, New York: "Mining in Siberia."

Feb. 23. Professor W. K. Hatt, Department of Civil Engineering, Purdue University, Lafayette, Indiana: "The history of the development of concrete construction."

Mar. 16. Mr. Ralph Modjeski, Consulting Engineer, New York: "The new Memphis bridge."

Mar. 20. Dean C. H. Benjamin, School of Engineering, Purdue University, Lafayette, Indiana: "The fourth dimension."

Apr. 16. Dr. P. W. Bridgeman, Harvard University, Cambridge, Massachusetts: "High pressure phenomena, effects on matter."

Apr. 17. Dr. P. W. Bridgeman, Harvard University, Cambridge, Massachusetts: "High pressure phenomena, methods of experimenting."

Apr. 25. Mr. S. T. Henry, Vice-President, Allied Construction Machinery Corporation, New York: "Where are the men?"

May 10. Mr. W. B. Stout, Chief Engineer, Air-Craft Division, Packard Motor Car Company, Detroit, Michigan: "Air-craft motors."

Addresses Before the Freshman Class

Oct. 25. Major J. B. Caughey, Elgin Watch Company, Chicago, Illinois: Motion Film. "Processes of manufacture of the Elgin watch."

Jan. 10. President Ira N. Hollis, Worcester Polytechnic Institute, Worcester, Massachusetts: "The relation between efficiency and democracy."

Feb. 21. Mr. K. Llewellyn, National Tube Company, Chicago, Illinois: Motion Film. "Processes of manufacture of pipe and tubing."

Mar. 21. Motion Pictures: "The sales organization of the Firestone Tire Company."

May 2. Films: "The mining of Trinidad asphalt and making of roads."

Architecture

Nov. 13. Mr. E. A. Sterling, Lumber Manufacturers' Association: "Wood, its characteristics and uses."

Dec. 7. Mr. Claude F. Bragdon, Architect, Rochester, New York: "Fundamentals of architecture."

Jan. 12. Mr. David Varon, Architect, New York: "Presentation of architectural problems."

Jan. 17. Professor Gabriel Ferrand, Department of Architecture, Washington University, St. Louis, Missouri: "Ideals of the architect."

Electrical Engineering

Nov. 2. Mr. S. P. Farwell, Service Engineer, Illinois Public Utilities Commission, Springfield, Illinois: "The service work of the Illinois public utilities commission."

Dec. 11. Mr. C. R. Underhill, Chief Engineer, The Acme Wire Company, New Haven, Connecticut: "Some practical applications of the electro-magnet."

Feb. 8. Mr. W. J. Spaulding, Commissioner of Public Property, Springfield, Illinois: "The operation of municipally owned utilities in Springfield, Illinois."

Mar. 7. Mr. Otis L. Johnson, Chairman, Illuminating Engineering Society, Chicago, Illinois: "Illumination of industrial plants."

Mar. 21. Mr. A. B. Gates, Superintendent of Overhead Construction, Commonwealth Edison Company, Chicago, Illinois: "The city of Chicago street lighting system."

Apr. 20. Mr. Peter Junkersfeld, Assistant to Vice-President, Commonwealth Edison Company, Chicago, Illinois: "The engineer's opportunity in public utility service."

Mining Engineering

Feb. 23. Mr. J. R. Fleming, Mining Engineer, United States Bureau of Mines, Urbana, Illinois: "Copper mining."

May 12. Mr. J. R. Fleming, Mining Engineer, United States Bureau of Mines, Urbana, Illinois: "Coal mining."

Mechanical Engineering

Jan. 9. Dr. I. N. Hollis, President of the American Society of Mechanical Engineers, Worcester, Massachusetts: "Value of the society in the field of engineering."

Mar. 8. Mr. S. L. Grimes, Midland Machine Company, Detroit, Michigan: "Molding machines."

War Lectures

Oct. 17. Major T. J. Hanley, U. S. A., Chanute Field: "Aeroplanes."

Oct. 24. Lieutenant H. R. Hingston, Canadian Army: "Life in the trenches."

Nov. 7. Lieutenant Paul Montariol: "The use of aviation in the war."

Dec. 12. Colonel L. D. Wildman: "Army signal work."

Dec. 17. Lieutenant Bruno Roselli, Italian Army: "The present military and political problems of Italy."

THE COLLEGE OF AGRICULTURE

Agricultural Extension

Jan. 3. Mr. G. R. Shawhan, Champaign. "The young man and his money."

Jan. 10. Dr. James McKee, Versailles, Ky. "The personal equation in life."

Jan. 24. Mr. Frank Mann, Gilman, Illinois: "The Business of Farming."

Feb. 14. Mr. C. C. Hatfield, Chicago, Illinois: "Rural leadership."

Apr. 11. Mr. B. F. Harris, Champaign, Illinois: "Tying town and country together."

Addresses Before the Corn Growers' and Stockman's Convention

Jan. 16. Mr. Paul Hansen, Chief Sanitary Engineer, State Board of Health, Springfield: "Rural sanitation." "Disposal of sewage and human wastes on the farm."

Jan. 17. Mr. P. C. McArdle, Superintending Engineer, Vermilion County, Danville: "County bond issues for road construction in Illinois."

Jan. 17. Colonel George O. Shields, President The League of American Sportsmen, New York City: "The prairie chicken, the quail, and the English sparrow; their relation to American agriculture." "Wild animals and birds."

Jan. 18. Mr. H. E. Bilger, Road Engineer, State Highway Department, Springfield: "Types of roads:—Where? Which? Why?"

Jan. 18. Mr. O. M. Jones, Attorney at Law, Danville: "The working ot the Illinois road law."

Jan. 18. Mr. E. S. Bradt, State Highway Commissioner, Springfield: "What has been accomplished under the present road law."

Jan. 18. Mr. W. P. Graham, Rochelle: "The road law from the farmer's standpoint."

Jan. 18. Professor C. W. Farr, Cook County Schools, Chicago: "The farmer's opportunity."

Jan. 19. Mr. William M. Hudson, President Blackburn College, Carlinville: "Helping others to help themselves."

Jan. 22. Mr. L. B. Neighbour, Dixon: "Duties of township highway commissioners."

Jan. 22. Mr. H. H. Laughlin, Superintendent Eugenics Record Office, Cold Springs Harbor: "Human heredity."

Jan. 22. Mr. J. V. Stevenson, Streator: "Community boosters."

Jan. 23. Mr. H. H. Laughlin, Superintendent Eugenics Record Office, Cold Springs Harbor: "Race improvement."

Jan. 23. Mr. A. C. H. Cromer, Hoopeston; Mr. H. J. Sconce, Sidell; Mr. R. A. Graham, Rochelle: "The large gas tractor as a source of farm power."

Jan. 23. Mr. C. P. Hartley, In Charge of Corn Investigations, Bureau of Plant Industry, Washington: "Theoretical and practical corn improvement work."

Jan. 23. Mr. Lorado Taft: "Greek tradition in sculpture."

Jan. 24. Mr. C. P. Hartley, In Charge of Corn Investigations, Bureau of Plant Industry, Washington: "The corn crop from the standpoint of the Illinois farmer."

Jan. 24. Mr. C. V. Gregory, Chicago; Mr. R. A. Graham, Rochelle; Mr. F. I. Mann, Gilman: "The small gas tractor as a source of farm power."

Jan. 25. Mr. E. T. Robbins, Washington: "The horse as a source of farm power."

Jan. 26. Mr. George MacKay, Canton: "William Parlin; A pioneer plow manufacturer."

Agronomy

Feb. 20. Mr. WILLIAM E. REIGEL: "Methods used in hauling soybeans on an 800 acre farm."

Mar. 6. Mr. C. H. OATHOUT: "County adviser work in Champaign County."

Apr. 17. Mr. E. T. EBERSOL: "Experiences and observations of the past five months in Agricultural Extension Service."

LECTURES

Animal Husbandry

Jan. 19. Dr. JAMES MCKEE, Versailles, Kentucky: "Durocs at Forest Home Farm."

May 17. Mr. DAVID M. FYFFE, Ohio State University, Columbus, Ohio: "How to judge horses."

Dairy Husbandry

Mr. C. E. LEE, Dairy and Food Department, Madison, Wisconsin: "Workmanship in butter."

Mr. F. W. BOUSKA, American Association of Creamery Butter Manufacturers: "Modern creamery methods."

Addresses before the School for Housekeepers

Jan. 18. Mrs. F. L. STEVENS, Urbana: Demonstration on breads.

Jan. 19. Mrs. A. E. HARRISON, Woodstock; Mrs. JESSIE F. SCOTT, Sullivan; Mrs. L. A. SNYDER, Manteno; Mrs. J. P. STOUT, Chatham: "How principles of home economics have helped in developing my home."

Jan. 22–26. Miss ANNA BARROWS, Columbia University: Five lectures and demonstrations on foods.

Jan. 24, 25. Mrs. MARY SCHENCK WOOLMAN, Boston: "Economic aspect of woman's wardrobe;" "Choice and purchase of materials."

Jan. 24. Miss JESSIE F. EDMUNDSON, Kankakee: "Economy in millinery as taught the country girls by the County Adviser of Kankakee County."

Jan. 26. Mrs. LUTHER SMITH, Manteno: "What a County Adviser in home improvement has meant to Kankakee County."

HORTICULTURE

Exhibitions

Apr. 15. FLORAL EXHIBIT: Exhibition of floral arrangements by the class in floral arrangements.

Nov. 4–7. CHRYSANTHEMUM SHOW.

Dec. 18–20. FRUIT AND VEGETABLE EXHIBIT.

Lectures

Jan. 18. THOMAS J. BENDELOW, Chicago: "Golf course design."

Mar. 23. W. N. RUDD, Chicago: "Cemetery planting."

THE SCHOOL OF MUSIC

Feb. 13. Dr. LOUIS F. KUPPIN: "The liturgy of Jewish worship." Lecture-Recital.

Mar. 21. Mr. CECIL J. SHARP: "Folk songs of the southern Appalachians."

THE COLLEGE OF LAW

Mar. 17. H. CLAY HORNER: Probate Procedure, Management and Distribution of Estates.

Mar. 21. H. CLAY HORNER: Titles to Real Property and the Statute of Uses.

May 2. Col. B. M. CHIPERFIELD: Annual address before the Order of the Coif.

THE LIBRARY SCHOOL

Nov. 14. Miss LUTIE E. STEARNS, Milwaukee, Wisconsin: "The Library and the ideal democracy."

Nov. 21. Miss MAY MASSEE, Editor, A. L. A. Booklist, Chicago, Ill.: "The A. L. A. Booklist's selection for small libraries."

Dec. 9. Miss IRENE WARREN, Chicago, Ill.: "The High School Library."

Dec. 19. Dr. CHARLES H. LINCOLN, Worcester, Mass.: "The Calendaring of manuscripts."

Jan. 4. Dr. FRANK P. HILL, Librarian, Brooklyn Public Library: "Library Finances."

Jan. 5–6. Mr. R. R. BOWKER, Editor, *Library Journal*, New York: "Library and literary folk of the past;" "Book publishing and book selling."

Apr. 27. Mr. GEORGE B. UTLEY, Secretary of the American Library Association. "The Library of Tomorrow."

May 24. Miss MARY E. HAZELTINE, Preceptor, Wisconsin Library School: "The Great Adventure;" "The Wisconsin Free Library Commission."

Mar. 2. MONSIEUR JEAN A. PICARD, New York: "The increasing demand for information regarding the French people, their literature, art, and institutions."

Oct. 22. THEODORE W. KOCH, The Library of Congress: "An American Librarian in London."

THE SUMMER SESSION

June 25–29. Professor FRANKLIN T. BAKER, Columbia University: "Literature as the high school boy sees it." "Cursory vs. intensive reading." "Reading poetry." "The student's problem: What shall I write?" "The relation of English with the other subjects of the curriculum."

July 2. Dr. EDGAR J. BANKS, Chicago University: "A thousand miles down the Tigris river."

July 2–3. COBURN PLAYERS: "Romeo and Juliet." "Much Ado About Nothing." "Julius Caesar."

July 6, 13, 20. HIGH SCHOOL PRINCIPALS' AND TEACHERS' CONFERENCE.

July 9–10. Mr. HENRY OLDYS, Ornithologist, Department of Agriculture, Washington, D. C.: "Bird and human music." "Food conservation." "The esthetic sense in birds."

July 11. ASSEMBLY. Topic: Community Problems.

Aug. 6–11. EXHIBIT: Work of Summer Classes in Art and Design, Domestic Art, and Manual Training.

Hoover Lectures

July 10. Professor CYRIL G. HOPKINS: "The world food situation."

July 11. Professor ISABEL BEVIER: "The conservation movement in Illinois."

July 12. Professor H. B. WARD: "The use of fish as a food."

July 13. Professor W. C. COFFEY: "The world wool situation."

July 16. Miss MAMIE BUNCH: "How to use existing organizations in the conservation work."

ASSOCIATIONS, SOCIETIES, AND CLUBS

GENERAL ORGANIZATIONS

The Alumni Association

The Alumni Association is the general organization of the alumni of the University. The Association maintains an office at the University and publishes a fortnightly periodical, the *Alumni Quarterly and Fortnightly Notes*. The alumni of the College of Medicine, the College of Dentistry, the School of Pharmacy, and the Library School have formed departmental organizations. Forty-three local alumni associations have been organized: fourteen in Illinois, two each in California, Missouri, New York, Ohio, Texas, and Wisconsin, one each in Colorado, the District of Columbia, Idaho, Indiana, Iowa, Massachusetts, Michigan, Minnesota, North Dakota, Oregon, Pennsylvania, Tennessee, Utah, Washington, Brazil, India, and Japan. Regular University of Illinois alumni luncheons are held in fifteen cities. (See the Directory of Alumni Associations at the end of this volume.)

University of Illinois Union

The University of Illinois Union is an association of the men of the University, having for its general object the promotion of college spirit and good fellowship. All male students are eligible to active membership in the Union; alumni and members of the faculty may become associate members.

The Student Council

The Student Council, consisting of eight seniors and seven juniors, elected annually, has charge of certain undergraduate student activities.

The Woman's League

The Woman's League was organized to further the spirit of unity among the women of the University and to be a medium for the maintenance of high social standards. The administrative power is vested in an Advisory Board and an Executive Committee composed of representatives from the various women's organization. Every woman in the University is, by virtue of her registration, a member of the League. The League manages a loan fund, supports a room in the Burnham Hospital, and provides the magazines for the Woman's Building.

Students' Hospital Fund

The Students' Mutual Benefit Hospital Fund provides ward hospital care for members who become ill and need such care for a period not to exceed four weeks during any semester. Members pay $1.00 a semester. The Dean of Men is the Trustee of the Fund.

Literary Societies

The ADELPHIC, IONIAN, and PHILOMATHEAN societies for men, and the ALETHENAI, ATHENIAN, ILLIOLA, and GREGORIAN societies for women, meet weekly, on Fridays, and the JAMESONIAN Society (for women) on Tuesdays, throughout term time.

The Christian Associations

The present membership of the Young Men's Christian Association is 476. The Association building furnishes free, for the use of all students, lounging room and library, parlors, organization rooms for committee meetings, correspondence tables, and check room. Religious meetings for men are held occasionally on Sunday afternoon. Thursday evening meetings are addressed by prominent faculty members on ethical topics. Student-led classes in Bible Study are promoted, the teachers receiving training in normal groups. An employment bureau managed by a special secretary, who maintains office hours every afternoon in the Association building, endeavors to help students to find work.

The Y. W. C. A. is housed in the Hannah McKinley building. Dormitory space is provided for fifty young women. There are parlors on the first floor for use of the women rooming in the house, a large assembly room, pianos, organization rooms, and correspondence tables. A modern dining room is located in the basement. There are 516 members of the Y. W. C. A. In 1916–17 there were 473 young women enrolled in voluntary Bible Study and 75 in study of missions and social service. An employment bureau is maintained at the Y. W. C. A. to help University women to find employment.

At the opening of the college year the Associations endeavor to help new students to find desirable rooming and boarding places. A copy of the Students' Handbook, giving information about Urbana and Champaign, the University, and the various college organizations and activities will be sent free to prospective students. For this handbook or for further information address the general secretary of either Association.

HONORARY SOCIETIES

The honorary societies or fraternities named below are private intercollegiate organizations of students and graduates, having for their primary purpose the recognition and encouragement of excellence in scholarship in various departments of study. Election is in all cases made by the societies themselves in accordance with their own rules. The University assumes no responsibility for their elections.

Phi Beta Kappa

Each year a certain number of the ranking students of the senior class in the College of Liberal Arts and Sciences are elected to membership in the Phi Beta Kappa Society. The number is ordinarily limited to one-fifth of the total membership of the graduating class.

The Phi Beta Kappa Prize

Gamma of Illinois chapter of Phi Beta Kappa offers annually a prize of $25 to that member of Gamma Chapter who at his graduation from the College of Liberal Arts and Sciences gives evidence of greatest promise as a scholar in the domain of liberal arts. The award is based on the following considerations: (a) Class room records; (b) other literary and scholarly activities in the University; (c) an essay, which may be a senior thesis or a term paper. At the discretion of the committee in charge, the award may be withheld if none of the essays appears worthy of the prize. Essays submitted in competition and all correspondence with reference to this prize should be addressed to the Secretary of the Phi Beta Kappa Society, University of Illinois. The committee will not be limited in its award to those who have submitted papers specifically for this purpose or have otherwise given formal notice of candidacy. Special consideration will be given to theses deposited in the College Office by candidates for honors in the various departments.

Sigma Xi

Members of the senior class who give "promise of marked ability" in scientific investigations are eligible to membership in the Sigma Xi Society, which was founded to encourage research in pure and applied science.

Other Honorary and Professional Societies

Alpha Chi Sigma (Chemistry): Alpha Delta Sigma (Advertising); Alpha Kappa Psi (Commerce); Alpha Rho Chi (Architecture); Alpha Zeta (Agriculture); Beta Gamma Sigma (Commerce); Delta Sigma Rho (Oratory); Eta Kappa Nu (Electrical Engineering); Farm House (Agriculture); Gamma Alpha (Scientific); Gargoyle (Architecture;) Graphomen (Journalism); Kappa Delta Pi (Education); Keramos (Ceramic Engineering); Ma-Wan-Da (Men's Senior Society); Medui (Pre-Medical); Mu Kappa Alpha (Musical); Omicron Nu (Household Science): Phi Delta Psi (Women's Senior Society): Order of the Coif (Law); Phi Alpha Delta (Law); Phi Delta Kappa (Educational); Phi Delta Phi (Law); Phi Lambda Upsilon (Chemistry); Pi Tau Sigma (Mechanical Engineering); Sachem (Men's Junior Society); Scabbard and Blade (Military); Scarab (Architecture); Sigma Delta Chi (Journalism); Sigma Mu Rho (Medical); Sigma Tau (Engineering); Tau Beta Pi (Engineering); Triangle (Civil Engineering); Tribe of Illini ("I" Men); U. L. A. S. (Landscape Architecture).

CLUBS AUXILIARY TO COURSES OF STUDY

In addition to the associations and societies of a general character described above, there are in each college a number of societies and clubs devoted to outside work of a literary, scientific, or technical nature auxiliary to the work of various departments of that college. Among these are the following.

In the College of Liberal Arts and Sciences: The Botanical Club, The Celtic Club, *le Cercle Francais*, *el Circulo Espanol*, the Chemical Club, the University of Illinois Section of the American Chemical Society, the Classical Club, *der Deutsche Verein*, the English Journal Club, the Geological Journal Club, Hexapœcia, the History Club, the Mathematical Club, the Oratorical Association, the Pen and Brush Club, the Philological Club, the Political Science Club, the Romance Journal Club, the Scandinavian Club, the Zoological Club.

In the College of Commerce and Business Administration: The Commercial Club.

In the College of Engineering: The Architectural Club, the Student Branch of the American Ceramic Society, the Civil Engineering Society, the Electrical Engineering Society, the Urbana Section of the American Institute of Electrical Engineers, the Student Branch of the American Society of Mechanical Engineers, the Student Branch of the American Association of Engineers, the Student Branch of the American Institute of Mining Engineers, the Physics Colloquium, the Railway Club.

In the College of Agriculture: The Agricultural Club, the Horticultural Club, the Household Science Club, the Landscape Gardeners' Club, the Hoof and Horn Club.

In the School of Music: The University Choral and Orchestral Society, the University Glee and Mandolin Club, the University Military Band, the University Women's Glee Club, The University Choristers.

In the Library School: The Library Club.

In the Law School: Inns of Court.

FRATERNITIES, SOCIETIES, AND CLUBS

National Fraternities.—Acacia; Alpha Chi Rho; Alpha Delta Phi; Alpha Gamma Rho; Alpha Sigma Phi; Alpha Tau Omega; Beta Phi; Beta Theta Pi; Chi Phi; Chi Psi; Delta Kappa Epsilon; Delta Tau Delta; Delta Upsilon; Kappa Alpha Psi; Kappa Sigma; Lambda Chi Alpha; Phi Delta Theta; Phi Gamma Delta; Phi Kappa; Phi Kappa Psi; Phi Kappa Sigma; Phi Kappa Tau; Phi Sigma Kappa; Pi Kappa Alpha; Psi Upsilon; Sigma Alpha Epsilon; Sigma Phi Epsilon; Sigma Chi; Sigma Nu; Sigma Pi; Tau Kappa Epsilon; Theta Chi; Theta Delta Chi; Zeta Beta Tau; Zeta Psi.

Sororities.—Achoth; Alpha Chi Omega; Alpha Delta Pi; Alpha Omicron Pi; Alpha Xi Delta; Chi Omega; Delta Gamma; Gamma Phi Beta; Kappa Alpha Theta; Kappa Kappa Gamma; Pi Beta Phi; Sigma Kappa.

Local Clubs.—Acanthus; Beta Pi; Beta Upsilon; Bushnell Guild; Chi Beta; Chi Theta; Delta Epsilon Phi; Illus; Iris; Pi Pi Rho.

Interfraternity Organizations.—Men's Pan Hellenic Council; Girls' Pan Hellenic Association; Skull and Crescent; Yo Ma; Phi Delta Psi; Ku Klux Klan.

OTHER ORGANIZATIONS

Other students' societies include the following: Bushnell Guild; Chinese Students' Club; Comitatus (Democratic Club); Cosmopolitan Club; Hindustani Association; Illinois Drama Federation; Inter-Collegiate Prohibition Association; Ivrim; Japanese Students' Club; Komenian Society; Lambda Epsilon Phi (Republican Club); Mask and Bauble (dramatic); Motorcycle Club; Scribblers' Club; Sigma Delta Theta (M. E.); Menorah; Country Life; Rifle Club.

UNDERGRADUATE SCHOLARSHIPS

(For circulars giving more detailed information concerning scholarships, apply to the Registrar of the University.)

COUNTY SCHOLARSHIPS

A law passed by the General Assembly of the State of Illinois at the session of 1905 and embodied in the General School Law of 1909 provides that one scholarship may be awarded annually to each county of the State. The holder thereof must be at least sixteen years of age, and a resident of the county to which he is accredited. No student who has attended the University of Illinois is eligible for a scholarship. The holder of a scholarship is relieved of payment of the matriculation fee ($10, payable once, on entrance) and the incidental fee ($30 a year) for four years in any department of the University other than the professional schools. The term "professional schools," as here used, includes the College of Law, the Library School, the College of Medicine, the College of Dentistry, and the School of Pharmacy.

A competitive examination, under the direction of the President of the University, and on such branches of study as the President may select, is held on the first Saturday in June of each year, at the county court house in each county by the County Superintendent of Schools. Questions for the examinations are furnished in advance to the County Superintendents.

The successful candidates in the examinations must then meet in full, either by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class, and must register the following September.

In case the scholarship in any county is not claimed by a resident of that county, the President of the University may fill the same by assigning to that county from some other county the student found to possess the next highest qualifications.

A student holding a scholarship who shall make it appear to the satisfaction of the President of the University that he requires leave of absence for the purpose of earning funds to defray his expenses while in attendance, may, in the discretion of the President, be granted such leave of absence, and may be allowed an extension of his scholarship for not more than two years (making not more than six years in all from the beginning of the scholarship). Such extension will not be granted unless the student has been in attendance at the University for at least one full semester, nor unless the student's average grade during the period of his attendance has been at least 75, exclusive of grades in military science and physical training.

GENERAL ASSEMBLY SCHOLARSHIPS

The same act by which the county scholarships described above were established also provides that each member of the General Assembly may nominate annually one eligible person from his district for a scholarship in the University, granting the same privileges as the county scholarships.

A member of the General Assembly who wishes to nominate a candidate for a scholarship should file the name and address of his nominee as early in the spring as practicable and not later than June 1, with the President of the University and also with the County Superintendent of the county in which the nominee resides.

The nominee, if a graduate of a school accredited by the University, shall be admitted to the University on the same conditions as to educational qualifications as are graduates of such accredited high schools not so appointed to scholarships, and if any such candidate is not a graduate of a school accredited by the University, he shall present himself for examination—the same that is given to competitors for the county scholarships on the first Saturday in June, under the County Superintendent. The nominee must further (1) meet in full, either by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class; and (2) to register in the University the following September.

If a nominee fails to make a passing grade (70) in the scholarship examination he may not receive the scholarship. In this case notice will be sent to the member of the General Assembly who made the nomination, who is then entitled to nominate a second candidate, before the first registration day in September. This second candidate is subject to all the requirements stated above; the scholarship examination will be given him at the University on the Wednesday preceding the fall registration days (in 1918, September 11).

A General Assembly scholarship may be extended under the same conditions as a county scholarship.

SCHOLARSHIPS IN CERAMIC ENGINEERING

The University offers annually, to each county in the State, one scholarship, awarded on the nomination of the Illinois Clay Workers' Association, to applicants who intend to follow the curriculum in Ceramic Engineering. These scholarships are good for four years and relieve the student from the payment of the matriculation fee ($10, payable once, on entrance), and the incidental fee ($30 a year).

The candidate must be at least sixteen years of age, must be a resident of the county for which he is nominated, and must meet *in full, before entering*, by certificate from an accredited high school or by passing entrance examinations at the University, the requirements for admission to the freshman class.

SCHOLARSHIPS IN AGRICULTURE AND HOUSEHOLD SCIENCE

The University offers every year to each county in the State, except Cook and Lake, and to each of the first ten congressional districts, one scholarship for prospective students of agriculture in the College of Agriculture and one for prospective students of household science in the College of Liberal Arts and Sciences or the College of Agriculture.

Appointments to scholarships in agriculture are made by the Trustees of the University on the recommendation of the Executive Committee of the Illinois Farmers' Institute; and to scholarships in household science on the recommendation of the County Domestic Science Associations, or, for counties and districts in which there are no domestic science associations, on the recommendation of the Illinois Farmers' Institute. Persons who have already attended the University are not eligible, and no person will be assigned a scholarship unless his name is received by the Registrar of the University on or before the registration days of the semester with which the scholarship is to begin.

Candidates who are able to meet in full the requirements for admission to the freshman class are eligible for appointment at 16 years of age. Candidates who cannot meet these entrance requirements are eligible for appointment as special students (in the College of Agriculture) at 21 years of age.

Acceptable candidates, residents of counties or districts for which appointments have been made, not exceeding five in number from any one county or district, may be assigned to counties or districts for which no recommendations are made. The first nominee from each county or district, if duly qualified, is awarded the scholarship at the time of registration. Other nominees must pay the regular fees on registration. Assignments to counties and districts for which there are no nominees registered are made on October 15, at which time the nominees so assigned to counties or districts other than their own receive rebates of the full amount of the matriculation and incidental fees paid.

The scholarships are good for two years and relieve the holders from the payment of the matriculation fee ($10, payable once, on matriculation), the incidental fee ($30 a year), and (in the case of special students) the tuition fee ($15 a year). If, before a scholarship expires, the holder satisfies in full the requirements for admission to the freshman class of the college in which he or she is enrolled, the term of the scholarship may be extended to four years from the date of the student's matriculation.

THOMAS J. SMITH SCHOLARSHIPS IN MUSIC

Captain Thomas J. Smith, of Champaign, Illinois, on September 17, 1914, conveyed to the Board of Trustees of the University certain farm lands in Champaign County, in consideration whereof the Board of Trustees agreed to erect a building for the music departments of the University, to be known as the Tina Weedon Smith Memorial Building, and further to grant annually in the University four free scholarships in the music departments "for young women who may seek a musical education but who are unable to pay the customary charges for instruction in music"; these scholarships to be assigned by way of preference to candidates from Champaign County, but in case there are no candidates from this county, to be assigned to young women from other counties in Illinois.

Regulations:

(1.) These scholarships shall be good for one year and shall exempt their holders during this period from matriculation, incidental, and music fees.

(2.) A person who during her year of tenure of one of these scholarships shall make an average grade of B in all subjects shall be eligible for reappointment to it for a second year, and on the same basis may be reappointed for a third year and a fourth year.

(3.) Each applicant for original appointment to one of these scholarships shall present a recommendation from the principal of a high school accredited to the University, certifying that she is a graduate of the high school, that she is a student of ability and promise, and that in the judgment of the principal of the high school she is unable to pay the customary charges for instruction in music.

(4.) Each applicant for original appointment to one of these scholarships shall pass the University entrance examinations in the following subjects: English composition and rhetoric, 1 unit; algebra, 1 unit; Latin or French or German, 2 units; music, 2 units; these examinations to be taken with the regular fall entrance examinations of the University. The scholarships shall be awarded to the candidates from Champaign County who make the highest average grade in these four examinations. In case the number of successful candidates from Champaign County is fewer than the number of available scholarships, the remaining scholarships shall be awarded to the candidates from other counties in Illinois having the highest average grade in these four examinations. But no scholarship shall be awarded to any candidate who fails to make a passing grade (70) in any one of the four subjects of the examination.

(5.) A candidate for original appointment must also satisfy in full the entrance requirements of the School of Music as stated in the University catalog, and must matriculate in that School for the fall semester immediately succeeding the examination.

(6.) No person who has attended the University shall be eligible for appointment to these scholarships.

JOSEPH T. RYERSON AND SON SCHOLARSHIPS

(Mechanical or Railway Engineering)

The Joseph T. Ryerson and Son Scholarships of the American Railway Master Mechanics' Association, two in number, provide each for an annual stipend of $300.00 to be paid to the beneficiary during the four years of his attendance in an engineering course at the University of Illinois, the University of Wisconsin, or Purdue University. Competitive examinations for these scholarships are conducted by the three universities in turn. The next appointment will be made for September, 1919, and the examination will be conducted in June, 1919, by the University of Illinois. Practical railroad experience is considered in the selection of candidates. Beneficiaries are expected to spend two years after graduation in the mechanical department of some railroad, and when financially able to do so to refund in convenient sums the amount of the scholarship for the benefit of others. For further information address Jos. W. Taylor, Secretary of the American Railway Master Mechanics' Association, 1112 Karpen Building, Chicago, or the registrar of any one of the three universities concerned.

MILITARY SCHOLARSHIPS

Students who have had three semesters of class instruction in military science and four semesters of drill practise are eligible for appointment as commissioned officers of the University Corps of Cadets. To those attaining this rank, special military scholarships, good for one year, and equal in value to the university incidental fees for the year, are open. The amount of these scholarships is paid the holders at the close of the academic year. Appointments in the Corps of Cadets are made on the recommendation of the Commandant of Cadets, confirmed by the Council of Administration.

OTHER SCHOLARSHIPS

For *scholarships in the College of Law*, see page 203.

For *scholarships in the Summer Session*, see page 197.

For *fellowships and graduate scholarships*, see under Graduate School, page 181.

BENEFICIARY AID

EDWARD SNYDER DEPARTMENT OF STUDENTS' AID

In 1899 Edward Snyder, Professor of the German Language and Literature, *Emeritus*, gave the University the sum of $12,000, to be lent to worthy students to enable them to finish their courses in the University.

This fund is available for junior, senior, and graduate students who need aid to remain and complete their work. The minimum loan made is fifty dollars; the maximum loan is one hundred fifty dollars to a junior, and two hundred dollars to a senior or graduate student. Notes of hand are taken for the amount of the loans, with five per cent interest. The maximum time limit is for juniors three years and for seniors and graduates two years from the ensuing thirtieth of June.

Loans are made only to matriculated students who have attained at least the full rank of junior, who have been in residence at the University at least one year, who are at the time students in residence at the University, and who have declared their intention to graduate.

In recommending loans, preference is given to those students who are most advanced in their university work, who have shown themselves most assiduous and successful in their studies, and have shown habitual economy in living. No distinction is made on account of sex or course of study. A loan will not be recommended for any student who is believed to have been financially or morally delinquent in any respect.

Applications for loans must be made in writing and addressed to the Chairman of the Loan Fund Committee.

CLASS OF 1895 LOAN FUND

A fund of $100 was established by the class of 1895, to be lent to needy and deserving students. According to the conditions of the gift, the sum of fifty dollars is to be lent annually, and the benefit of the fund is open only to students who, at the time of application, are members of the freshman class. The loan bears interest from the time the recipient leaves the University, and is due one-half in five years and one-half in six years after matriculation. The fund is in charge of the Loan Fund Committee of the Council of Administration. Applications should be made in writing and should be addressed to the Chairman of the Committee.

GRADUATE CLUB LOAN FUND

A fund of $75 was established by the members of the Graduate Club in 1907-1908, for the benefit of graduate students. Its administration is in the hands of the Loan Fund Committee of the Council of Administration. Applications should be made in writing and should be addressed to the Chairman of the Committee.

WOMAN'S LEAGUE LOAN FUND

In December, 1910, the Woman's League of the University gave to the University the sum of $409.41 to be known as the Woman's League Loan Fund. This fund is available for any woman matriculated in the University and is administered in the same way as the Snyder Loan Fund.

WILLIAM B. M'KINLEY LOAN FUND

In September, 1912, the Hon. William B. McKinley of Champaign, Illinois, turned over to the University notes aggregating something more than $12,000, this amount as it is collected to be used as a loan fund for undergraduate men. In making the donation, Mr. McKinley stipulated that loans should be made to students on their personal notes, and that a preference should be shown in making these loans to upperclassmen. The notes draw interest at five per cent and become due two years after the student's graduation. Applications for loans should be made in writing and should be addressed to the Chairman of the Loan Fund Committee.

HENRY STRONG LOAN FUND

Mr. Gordon Strong, of Chicago, trustee of the Henry Strong Educational Fund, has for 1917–18 offered the University $250 to be lent to self-supporting students of high scholastic attainments. The loan bears interest at four per cent and is payable within one year after graduation. The fund has been lent to one student.

MARGARET LANGE JAMES LOAN FUND

In 1915 President Edmund J. James established the Margaret Lange James Loan Fund in memory of his wife. The original fund ($5,000) given by President James has been supplemented by gifts from other persons, and the fund now amounts to about $5,650.

Loans from this fund may be made to matriculated students, preferably women who have been in residence at the University at least one year, who have attained at least junior standing, and who are at the time of application students in residence, who have declared their intention to graduate. In recommending loans, only students of promise and good scholastic standing are considered, and, other things being equal, preference is given to those who are the farthest along in their University work. A loan is not recommended for any student who is believed to be financially or morally delinquent in any respect.

Applicants for loans are required to offer security other than their own signatures, and no member of the faculty or other person directly connected with the University is accepted as security for any student loan.

Loans bear interest until maturity at five per cent, payable semi-annually. The maximum time for which notes may be drawn is two years from the thirtieth day of June next following the student's regular time of graduation. Bank discount is charged for the time until the thirtieth day of June next following the date of the note. Interest at seven per cent is charged on all notes not paid at maturity.

Applications for loans must be made in writing and addressed to the Chairman of the Loan Fund Committee.

WOMAN'S PHARMACY LOAN FUND

In May, 1917, the Woman's Organization of the Chicago Retail Druggists' Association gave to the University the sum of $115, to be used in establishing a loan fund in the School of Pharmacy. This fund is to be lent to a deserving woman student, preferably from Illinois, who is enrolled in the School. The loan is made on the recommendation of the Dean and is to be repaid within three years for a junior student and within two years for a senior student, dating from the ensuing thirtieth of June. A note of hand bearing five per cent interest from the time the recipient leaves school is taken for the amount.

LIBRARY SCHOOL FUND

The University of Illinois Library School Association has voted to make all surplus funds in its treasury available for loan to senior library school students. Over $250 is available for that purpose on the vote of the School faculty.

FEES AND EXPENSES

GENERAL FEES

All University fees are payable each semester in advance.

Colleges of Liberal Arts and Sciences, Commerce and Business Administration, Engineering, Agriculture, and Law, and Library School

Matriculation Fee. Each student not holding a scholarship, on satisfying the requirements for admission to the University, pays the matriculation fee of	$10.00
Incidental Fee. All students, excepting those holding scholarships, pay, each semester, an incidental fee of	15.00
Tuition Fee. Students conditioned on entrance requirements, and special students, (except special students in agriculture or household science holding scholarships), pay, each semester, a tuition fee of	7.50
Laboratory Fees. Each student working in laboratories, or in the drafting or engineering classes, is required to pay a fee varying from $0.50 to $10.00, to cover materials and apparatus used and breakages or damages. (For a list of Laboratory Fees, see page 112.)	
Deposit for Military Uniform. Male students, citizens of the United States, under 25 years of age, entering the University as freshmen or sophomores, make a deposit to cover the cost of the required military uniform[1] of	26.63
Listener's Fee. Persons not connected with the University who attend classes as listeners, pay for each course, each semester	7.50
Late Registration Fee. A former student who enters after the Registration Days in either semester must pay a late registration fee of	1.00
Change Fee. For every change of study-list made later than the tenth day of instruction of either semester a fee of $1.00 is charged, except that the total charge for the rearrangement authorized on any one change-slip shall not exceed $2.00	1.00
Special Examination Fee. For any special examination, except examinations for advanced standing taken within sixty days after matriculation, the fee is	5.00
Diploma Fee	5.00

School of Music

College Courses

Matriculated students, residents of Illinois, pay, each semester, the incidental fee...$15.00

All other students (including matriculated students not residents of Illinois and all conditioned and special students), pay, each semester:

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[1] Additional equipment costing $5.85 must be purchased.

If they take music only, special music fees, as follows:

For two lessons a week	$32.50
For one lesson a week	19.50
For harmony, counterpoint, fugue, etc.	9.00

If they take, in addition to music, subjects in other departments:

(1) The incidental fee	$15.00
(2) Unless matriculated, the tuition fee	7.50
(3) Special music fees, as follows:	
For two lessons a week	$25.00
For one lesson a week	15.00
(4) For harmony, counterpoint, fugue, etc.	9.00

Preparatory Courses

Students taking music only pay, each semester, special music fees as follows:

For two lessons a week	$19.50
For one lesson a week	11.00

Students taking, in addition to music, subjects in other departments pay, each semester:

(1) The incidental fee	$15.00
(2) Unless matriculated, the tuition fee	7.50
(3) Special music fees, as follows:	
For two lessons a week	$15.00
For one lesson a week	8.50

Additional

Use of a piano for practise one hour a day, each semester	$ 3.00
Additional hours at the same rate.	
Use of organ for practise one hour a day:	
For one semester	$20.00
For one-half semester	10.00
Special students, taking music only, may enter classes in physical training on paying each semester	7.50
Diploma fee	5.00

College of Medicine

Freshman Year

Matriculation[1]	$ 10.00
Registration	5.00
Laboratory	30.00
General Tuition	120.00
Total	$165.00

Sophomore Year

Registration	$ 5.00
Laboratory	35.00
General Tuition	120.00
Total	$160.00

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[1] Not payable if the student has previously matriculated in any other college of the University of Illinois.

Junior Year

Registration	$ 5.00
Laboratory	5.00
General Tuition	140.00
Total	$150.00

Senior Year

Registration	$ 5.00
General Tuition	155.00
Diploma fee	5.00
Total	$165.00

College of Dentistry[1]

Matriculation fee, paid but once, first year	10.00
Registration fee, second, third and fourth years	5.00
Tuition, each year (including laboratory and dissection fees)	150.00
Diploma fee	5.00

School of Pharmacy

Matriculation fee, paid but once	10.00
Registration fee, each year	5.00
Tuition fee, first and second years	90.00
Tuition fee, third year	125.00
Laboratory deposit, first and second years	10.00
Laboratory deposit, third year	15.00
Diploma fee	5.00

LABORATORY FEES (FOR MATERIALS) 1917-18

(The fees given below are in each case for one semester only; where a course runs through both semesters, the fee is to be paid each semester.)

An. Husb. 30	$ 1.00
Bacteriol. 1	6.00
Bacteriol. 5	7.50
Bacteriol. 6	4.00
Bacteriol. 8	6.00
Bacteriol. 20	7.50
Bacteriol. 26	7.50
Bacteriol. 103	3.00
Bacteriol. 105	3.00
Botany 1	2.00
Botany 2a	1.50
Botany 2b	1.00
Botany 3a	3.00
Botany 3b	2.00
Botany 4	1.00
Botany 4a	1.00
Botany 4b	1.00
Botany 7a	3.00
Botany 7b	3.00
Botany 9a, (per hr.)	.50
Botany 9b (per hr.)	.50
Botany 16a	1.00
Botany 16b	1.00
Botany 17a	1.00
Botany 17b	1.00
Botany 20	1.00
Botany 21	1.00
Botany 22a (per hr.)	.50
Botany 22b (per hr.)	.50
Botany 23	1.00
Botany 25a	1.00
Botany 25b	1.00
Botany 27a	2.00
Botany 27b	1.50
Botany 28 (per hr.)	.50
Botany 101	3.00
Botany 102	3.00
Botany 104	$ 3.00
Botany 106	6.00
Ceramics 1	2.00
Ceramics 5	7.50
Ceramics 6	7.50
Ceramics 11	5.00
Ceramics 12	2.00
Ceramics 18	2.00
Ceramics 19	5.00
Ceramics 102	5.00
Ceramics 103	8.00
Ceramics 105	8.00
Chemistry 1	8.00
Chemistry 1a	4.00
Chemistry 1b	6.00
Chemistry 2a	8.00
Chemistry 2a (½ sem.)	5.00
Chemistry 3a	8.00
Chemistry 4	8.00
Chemistry 5a	10.00
Chemistry 5b	10.00
Chemistry 9c	10.00
Chemistry 10a	5.00
Chemistry 10b (½ sem.)	5.00
Chemistry 11a (per hr.)	2.00
Chemistry 11b (per hr.)	2.00
Chemistry 13a	10.00
Chemistry 13b	10.00
Chemistry 14c	10.00
Chemistry 14d	10.00
Chemistry 15	8.00
Chemistry 16	5.00
Chemistry 21	8.00
Chemistry 22	10.00
Chemistry 25	10.00
Chemistry 27	8.00
Chemistry 33	8.00

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[1] Students taking gross anatomy are required to make a deposit of $5.00 for bones.

Chemistry 35	$ 8.00
Chemistry 61	5.00
Chemistry 65	5.00
Chemistry 66	3.00
Chemistry 69	5.00
Chemistry 72	3.00
Chemistry 73	3.00
Chemistry 78	5.00
Chemistry 80	3.00
Chemistry 102c	5.00
Chemistry 103	10.00
Chemistry 103a	10.00
Chemistry 104	5.00
Chemistry 104a	5.00
Chemistry 105a (per hr.)	2.00
Chemistry 106	10.00
Chemistry 108	5.00
Chemistry 110	10.00
Chemistry 111 (per hr.)[1]	2.00
Civil Eng. 27	.75
Civil Eng. 28	.75
Civil Eng. 31	.75
Civil Eng. 32	.75
Civil Eng. 51	1.00
Civil Eng. 53	.75
Civil Eng. 58	.50
Civil Eng. 60	.50
Civil Eng. 62	.75
Civil Eng. 76	.50
Civil Eng. 79	1.00
Civil Eng. 82	.75
Civil Eng. 83	.75
Civil Eng. 85	1.00
Civil Eng. 88	.75
Civil Eng. 91	.75
Civil Eng. 92	.75
Civil Eng. 93	.50
Civil Eng. 96	1.00
Elect. Eng. 61	3.00
Elect. Eng. 62	3.00
Elect. Eng. 64	3.00
Elect. Eng. 68	3.00
Elect. Eng. 75	4.00
Elect. Eng. 76	4.00
Elect. Eng. 85	4.00
Elect. Eng. 86	4.00
Entom. 1a	1.00
Entom. 1b	1.00
Entom. 2	1.50
Entom. 3	1.50
Entom. 5	1.50
Entom. 6a	2.00
Entom. 6b	2.00
Entom. 7	1.50
Entom. 8a	1.50
Entom. 8b	1.50
Entom. 9	1.50
Entom. 10	1.00
Entom. 11	1.50
Entom. 13	1.50
Entom. 102	1.50
Entom. 108	1.50
Entom. 109	1.50
G. E. D. 2	1.00
Geology 1	1.00
Geology 2	1.00
Geology 3	2.00
Geology 5	2.75
Geology 6	1.00
Geology 7	2.00
Geology 8	1.00
Geology 9	1.00
Geology 10	1.00
Geology 11	1.00
Geology 12	2.00
Geology 13a	2.25
Geology 13b	1.00
Geology 14	1.00
Geology 16	1.00
Geology 22	1.00
Geology 35	1.00
Geology 36	$ 1.00
Household Science 1	3.00
Household Science 4	5.00
Household Science 5a	3.00
Household Science 5b	3.00
Household Science 6	3.00
Household Science 10	1.00
Household Science 14a	8.00
Household Science 14b	8.00
Household Science 17	2.00
Household Science 18a	5.00
Household Science 18b	5.00
Human Anat. 1	5.00
Human Anat. 2	5.00
Mech. Eng. 23	1.00
Mech. Eng. 61	2.00
Mech. Eng. 62	3.00
Mech. Eng. 64	3.00
Mech. Eng. 65	3.00
Mech. Eng. 66	3.00
Mech. Eng. 71	1.00
Mech. Eng. 73	1.00
Mech. Eng. 75	1.00
Mech. Eng. 77	3.00
Mech. Eng. 79	2.00
Mech. Eng. 81	3.00
Mech. Eng. 82	2.00
Mining 19	2.00
Mining 9	2.00
Mining 62	1.00
Mining 64	3.00
Mining 66	3.00
M. and S. E. 2	1.00
M. and S. E. 3	1.00
M. and S. E. 6a	1.00
Photography 1	4.00
Photography 2	4.00
Physics 3a	2.00
Physics 3b	2.00
Physics 4a	2.00
Physics 4b	2.00
Physics 8a	2.00
Physics 8b	2.00
Physics 10a	2.00
Physics 10b	2.00
Physics 15	2.00
Physics 16	2.00
Physics 17	2.00
Physics 18	2.00
Physics 22	2.00
Physics 23	2.00
Physics 25	2.00
Physics 27	2.00
Physics 31a	2.00
Physics 31b	2.00
Physics 32	2.00
Physiol. 1	3.50
Physiol. 2	3.50
Physiol. 3	3.50
Physiol. 4	3.50
Physiol. 5a	3.50
Physiol. 5b	3.50
Physiol. 103	3.50
Psychol. 3	2.00
Rwy. Eng. 63	3.00
T. and A. M. 10	1.00
T. and A. M. 15	1.00
T. and A. M. 16	1.00
T. and A. M. 25	2.00
T. and A. M. 26	1.00
T. and A. M. 29	2.00
Zoology 1	2.50
Zoology 2	3.50
Zoology 3	3.00
Zoology 4	2.50
Zoology 6	3.00
Zoology 9	2.00
Zoology 11	3.00
Zoology 17	1.00
Zoology 18	1.00
Zoology 22	2.00
Zoology 23	2.00
Zoology 25	3.00
Zoology 26	3.00

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[1] Maximum $10.00.

AVERAGE ANNUAL EXPENSES

The following are estimated average annual expenses for undergraduate students attending at Urbana, *exclusive* of books, clothing, railroad fare, laboratory fees, if any, and small miscellaneous needs:

Semester fees[1]	$ 30.00 to	$ 30.00
Room rent for each student (two in room)	72.00 to	80.00
Table board in boarding houses and clubs	162.00 to	200.00
Washing	20.00 to	30.00
Total	$284.00 to	$340.00
Board and room in private house, a week	$ 5.50 to	$ 6.50

In addition to the foregoing, freshmen pay a matriculation fee of $10.00, and the men are required to buy a cadet uniform and equipment, which costs $32.48. Freshmen engineering students will need to buy a set of drawing instruments at a cost of about $18.00.

Other necessary expenses will need to be taken into consideration. For all the necessary expenses of the year the average student is likely to need not less than $375.00 to $500.00. Most students spend more than this amount.

For information in regard to scholarships which cover the matriculation and incidental fee, see page 104.

Board and Rooms

The University does not provide dormitories nor furnish board, but the numerous rooming and boarding houses near the campus are to a certain extent under the supervision of the University. The Young Men's and Young Women's Christian Associations of the University will aid new students in securing rooms and board.

Prospective women students and their parents are invited to correspond with the Dean of Women in regard to suitable places.

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[1] Students of music, special students, and conditioned students must make needed changes in the amount given for "semester fees."

PART II
THE COLLEGES AND SCHOOLS

THE COLLEGE OF LIBERAL ARTS AND SCIENCES

For a description of the *buildings* used by this College, see page 51; for *museums and collections* belonging to it (classical art and archeology, education, European culture, botany, entomology, geology, and zoology), see pages 60-62: for a summary of its *courses*, see page 65; for *clubs and societies* auxiliary to its curriculums see page 102; for *fees*, see page 110.

ORGANIZATION

The organization of the College of Liberal Arts and Sciences, in which are merged the former College of Literature and Arts and College of Science, became fully effective on July 1, 1913, following an action of the Board of Trustees taken on July 5, 1912. In September, 1916, a new schedule of requirements for admission to the College of Liberal Arts and Sciences went into full operation. Changes in the requirements for graduation with the degree of Bachelor of Arts have been worked out by the Faculty and approved by the Board of Trustees. These are described on pages 118-120.

PURPOSE

The purpose of the College of Liberal Arts and Sciences is, first, to secure to its students a liberal education including both the humanities and the sciences; second, to furnish especially arranged curriculums preparatory to later professional and technical studies by which good students may ordinarily obtain in six years both the degree in arts and a professional degree in law or medicine, or a technical degree in engineering; and, third, to provide certain highly specialized curriculums in applied science (particularly chemistry), journalism, and household science. The degree of Bachelor of Arts is conferred on the completion of all these curriculums, except those in applied science, for which the degree of Bachelor of Science is given.

Under the modified elective system a student who desires to prepare for teaching may specialize to a considerable extent in the subject which he wishes to teach and may also find time for courses in education and related subjects of interest to teachers. Such students should, as a rule, continue their preparation in the Graduate School.

Students who desire to devote a considerable part of their undergraduate study to specific preparation for some calling other than teaching may select courses in law, medicine, dentistry, journalism, or applied chemistry, or household administration, in accordance with curriculums given in detail in the following pages.

ADMISSION

See the statement of the entrance requirements of the University, pages 67–83.

SPECIAL STUDENTS

For a statement of the regulations of the University in regard to special students. see page 74.

It is the policy of this College to admit as special students only a select group of mature and serious persons who, tho unable to meet the formal requirements for entrance, are substantially prepared for work of college grade, and have a specific and clearly defined purpose in their study.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF ARTS

A. *University Requirements.*—Each candidate must meet the general university requirements with respect to registration and residence, and must also secure credit in approved courses amounting to one hundred thirty hours, an hour being one class period a week for one semester. Each class period presupposes two hours preparation by the student, or the equivalent in the laboratory or drawing room.

B. *Prescribed Subjects.*—Rhetoric 1-2; Physical Training 1-2 and 1a for men; Physical Training 7a-7b and 9 for women; Military Science 1, 2, 3, 4, for men.

C. *Group Requirements.*—Every candidate must offer the minimum of work specified in each of the following groups:

I. *English.*—The offering in this group must include at least a one-semester course in literature.

II. *Foreign Languages and Literatures* (exclusive of courses in translation).

If a student has offered but two units of a foreign language for entrance to the University, he must pursue the study of foreign language through two year-courses or the equivalent. If he has offered for entrance three or more units of foreign language, he must continue the study of foreign language through one year of his college course.

Note: Candidates for the degree who have not offered Greek or Latin or French or German for entrance must offer one of these languages for graduation.

III. *History, Political and Social Science.*—History, economics, political science, sociology: 8 hours.

IV *Mathematics and Physical Science.*—Mathematics, astronomy (courses with college mathematics as prerequisites), physics, chemistry: 8 hours.

V. Botany, including bacteriology, entomology, geology, physiology, zoology: 8 hours.

VI. Education, philosophy, psychology: 6 hours, of which 3 shall be in philosophy or psychology.

D. *Major Subjects.*—Each candidate must select some subject as his major. A major consists of courses amounting to 20 hours chosen from among those designated by a department and approved by the faculty of the college. Such courses are to be exclusive of those elementary or beginning courses which are open to freshmen, and inclusive of some distinctly advanced work. At least five hours of the work accepted for a major must have been done in residence at this University and included within the maximum credits allowed in any one division. See the statements regarding majors under departmental announcements in Part III.

The subjects at present recognized as majors in this college are: Astronomy, bacteriology, botany, chemistry, classics, education, economics, English, entomology, French, geology, German, Germanic languages, Greek, history, household science, Latin, mathematics, philosophy, physiology, physics, political science, psychology, Romance languages, sociology, zoology.

E. *Minor Subjects.*—Each candidate must offer, in addition to his major, a minor of 20 hours in one or more allied subjects designated by the major department and approved by the faculty of the college. *At least 8 hours must be offered in one subject.* See the statements regarding minors under departmental announcements in Part III.

F. *Elective Subjects.*—

1. Not more than 40 hours in any one subject may be counted for graduation, except: (a) in special curriculums approved by the faculty of the college; (b) when a student is writing a thesis, he may count, in addition to the 40 hours, the hours of

the course in which he does his thesis work; (c) in the department of English a student may take 40 hours in addition to Rhetoric 1-2.

Note: The total credit in art and design is limited to 20 hours.

2. No credit is granted in any subject unless the student pursues it for the full time required in the shortest course offered in that subject. For example, if the student elects a course which yields two hours for one semester, he must stay in the class during one semester in order to get any credit at all. In order to secure any credit in a beginning course in a foreign language, a full year's work must be completed.

3. A limited amount of credit toward the degree of Bachelor of Arts is ordinarily given for courses offered in other colleges and schools of this University, as follows:

Electives in other Colleges and Schools

College of Agriculture:

Agricultural Extension 1 (High School Agriculture).
Agronomy 9 (Soil Physics), 11 (Soil Biology), 12 (Soil Fertility), 22 (Plant Breeding).
Animal Husbandry 7 and 31 (Animal Nutrition), 30 (Genetics).
Dairy Husbandry 11, 12a-12b (Dairy Bacteriology).
Horticulture 9 (Forestry), 12 (Horticultural Evolution), 36 (History of Landscape Gardening), 37a (Civic Design), 42 (Landscape Design).

The total credit allowed in agricultural courses may not exceed 14 hours except to students who do major work in entomology, who may be allowed 20 hours to be chosen from the above courses with the addition of Agronomy 7 and 25, and Horticulture 1a, 1b, 2, 3, 6 and 7.

College of Commerce and Business Administration:

Accountancy 1a-1b (Principles of Accounting), 13 (Municipal Accounting).
Business Organization 1 (Business Organization), 9 (Commercial and Civic Organizations).
Business Law 1a-1b (Commercial Law,—no credit given to students in the combined arts-law curriculum).
Economics, all courses except 9, 14, 15, 32, 34.
Transportation 1 (U. S. Transportation System). 2 (Transportation Policy)
The total credit allowed for courses in Commerce may not exceed 40 hours.

College of Engineering:

Architecture 13, 14, 15, 16 (History of Architecture), 31, 32 (Architectural Drawing).
Civil Engineering 27 and 28 or 33 and 34 (Surveying), 94 (Highway Administration).
Drawing, General Engineering 1 (Elements of Drafting); 2 (Descriptive Geometry).
Electrical Engineering 4 and 64 or 8 and 68.
Mechanical Engineering 11, 12 (Thermodynamics), 30 (Mechanics of Machinery).
Mechanics, Theoretical and Applied, all courses.
The total credit allowed in engineering courses may not exceed 24 hours.

College of Law:

A student in the College of Liberal Arts and Sciences, who earns at least 30 hours in this college, may take and count towards the degree of Bachelor of Arts not to exceed 30 hours of work in the College of Law, provided that not less than two courses amounting to at least five hours are taken each semester, under the advice of the Dean of the College of Law as to the courses to be taken. Courses in law may not be taken before the junior year by students enrolled in this college.

Law 14 (Carriers), 24 (Municipal Corporations), 28 (Insurance), and 34 (Public Utilities) are open to students of this college offering political science or economics as a major subject who have had a previous course in law or political science involving the study of cases.

Students who in 1916–17 had junior standing may take and count the first full year of law work for thirty hours of credit toward the degree of Bachelor of Arts, under the former arrangement for the combined course in Liberal Arts and Sciences and Law.

Library School:

Library Science 2a-2b or 12 (Reference), 7 (History of Libraries), 9 (Bookmaking) 13a-13b (Public Documents).

School of Music:

The total credit allowed for courses in music may not exceed 16 hours. At least one-half the credit must be taken in courses in the history and theory of music (1-14 inclusive). Credit may be allowed in practical music for courses preceded by Music 3 and 4 and exclusive of courses open to freshmen to an amount not to exceed one-half of the total allowed any student. No credit will be allowed for courses in public school music.

Physical Training:

Not to exceed 5 semester hours for men and 7 semester hours for women.

Military Science and Tactics:

Military Science not to exceed 8 semester hours.

G. *Bachelor's Thesis:* A bachelor's thesis is not generally required in this college. Students of high standing are, however, encouraged to write theses in connection with their major studies. Credit toward the degree is given for thesis work only as part of the work in some course for which the student is registered. The presentation of a thesis is required of all candidates for the honor degree.

H. *Optional Degree of Bachelor of Science:* Students who do major work in one of the subjects in Groups IV or V, or in household science, on petition to and recommendation of the faculty may be graduated with the degree of Bachelor of Science instead of Bachelor of Arts.

ARRANGEMENT OF COURSES

First Year

Subjects Prescribed for Freshmen

The following subjects must be taken during the freshman year: *Rhetoric* 1-2,[1] three hours each semester; *Military* 1a, 1b, one hour first semester, and *Military* 2a,2b one hour second semester (for men); *Physical Training* (Physical Training 1-2 and 1a for men: 7a-7b and 9 for women).

Freshmen Electives

The following subjects are open to freshmen. The total amount including military and physical training taken in any semester is limited to eighteen hours and should not be less than fifteen.

FIRST SEMESTER

I. English 10[2] (3);[3] Rhetoric 1 (3).

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[1] See special examination in Rhetoric 1, page 73.

[2] English 10–11 is open only to freshmen who have presented the minimum amount of English required for admission. See the description of this course, page 300.

[3] The figure immediately following the subject is the number of the course (see page 243), the figure in parenthesis indicates the number of credit hours to be secured in the course each semester.

II. French 1a (4) or 1b (4) or 2a (4); German 1 (4) or 2 (4) or 4 (4) or 5 (4); Greek 1a (4) or 2a (2) or 3 (3); Latin 6 (4), 1a (4) or 2a (4); Spanish 1a (4) or 2a (3) or 3a (2); Italian 1a (3).

III. Economics 7 (3) and 26 (3); History 1a (4) or 2a (3).

IV. Mathematics 2[1] (3) and 4[1] (2) prerequisite: entrance algebra, 1½ units: plane geometry, 1 unit, 3 (5); Chemistry 1[1] (5) or 1a[2] (3); Physics 7a[2] and 8a[2] (5).

V. Botany 1[1] (5), 4d (3): Entomology 1a[1] (3), 1b (3), 15 (5); Geology 1[1] (5), 14 (3); 35 (5): Zoology 1[1] (5).

Household Science 2 (2) or 7a (2).

Library Science 12[3] (2).

Art and Design 1[3] (3).

SECOND SEMESTER

I. English 11[4] (3);[1] Rhetoric 1 (3) or 2 (3).

II. French 1a (4) or 1b (4) or 2b (4): German 1 (4) or 3 (4) or 4 (4) or 5 (4) or 6 (4) or 7 (4); Greek 1b (4), 2b (2), or 4 (4), Latin 1b (4), or 2b (4); Spanish 1a (4) or 1b (4) or 2b (3) or 3b (2); Italian 1b (3).

III. Economics 22 (3) and 27 (3): History 1b (4) or 2b (3).

IV. Mathematics 2 (3) and 4 (2), 6 (5); Astronomy 4 (5); Chemistry 1[1] (5) or 1a[1] (3) or 2a (5); Physics 7b and 8b (5).

V. Botany 1[1] (5), 2b (5), 3a (5), 4 (3), 4a (5), 4b (5), 7a (5), 24 (3), 27b (5); Entomology 1b (2); Geology 1 (5), 22 (3), 35 (5): Zoology 2 (5), 1[1] (5), or 16 (2).

Household Science 1[5] (3).

Library Science 12[1] (2).

Art and Design 1[1] (2).

Second Year

Male students must continue Military throughout the year. Students who have failed to secure credit for any of the prescribed subjects of the freshman year must make up such deficiencies at this time.

Election

Aside from the subjects prescribed for the first two years, each student selects, with the advice of the Dean or other college advisers, such courses as will enable him to meet the requirements for graduation as stated above.

CURRICULUM IN JOURNALISM

Students who are preparing for reportorial, literary, or editorial work in journalism should take their major work in English, and make up their study schedules from the following suggested curriculum. With the consent of the adviser, other studies may, for purposes of specialization, be substituted for those suggested. A program which satisfies the group and major requirements may, for instance, be so modified in the third and fourth years as to lay emphasis on any one of the social sciences.

Students in journalism with major in English are subject to the requirements of the General Curriculum in Liberal Arts and Sciences.

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[1] Either semester.

[2] Prerequisite: Mathematics 4 (Trigonometry) which may be taken at the same time.

[3] May be taken either semester, but not in both.

[4] English 10-11 is open to freshmen who have presented the minimum amount of English required for admission. See the description of this course, page 300.

[5] Prerequisite: Entrance credit in Physics, and Chemistry 1 or 1a.

Curriculum in Journalism[1]

(Major in English)

FIRST YEAR

FIRST SEMESTER *Prescribed Subjects*	Hours[2]
Rhet. 1—Rhetoric and Themes	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1
Military 1a—Military Drill	½
Military 1b—Military Theory	½
Total	5
Suggested Electives	
Eng. 10—Introduction to Literature—or science	3 or 5
Foreign language	4
Hist. 1a—Continental European History	4
Lib. 12—General Reference	2

SECOND SEMESTER *Prescribed Subjects*	Hours[2]
Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 2—Gymnasium	1
Mil. 2a—Military Drill	½
Mil. 2b—Drill Regulations	½
Total	6
Suggested Electives	
Eng. 11—Introduction to Literature—or science	3
Foreign language	4
Hist. 1b—Continental European History	4

SECOND YEAR

Prescribed Subjects	
Mil. 3a—Military Drill	½
Mil. 3b—Military Theory	½
Suggested Electives	
Eng. 1—Survey of English Literature—or science	3 or 4 or 5
Eng. 12—American literature	2
Foreign language continued	4
Hist. 3a—History of United States	3
Pol. Sc. 1—American National Government or Econ. 1—Principles of Economics	5
Rhet. 12—News Writing	3

Prescribed Subjects	
Mil. 4a—Military Drill	½
Mil. 4b—Military Theory	½
Suggested Electives	
Eng. 1—Survey of English Literature—or Pol. Sc. 3—State and Local Government or Econ. 3—Money and Banking	3
Eng. 23—Shakespeare, or English 13, American Literature	3 or 2
Foreign language continued	4
Hist. 3b—History of United States	3
Rhet. 13—The Newspaper	3

THIRD AND FOURTH YEARS

Study lists for these years should be selected from the following list with regard to proper sequence.

Econ. 5, or 10, or 12a—Public Finance, or Corporation Management, or Labor Problems	3
English 27 and 21, or 33 or 45—History of Journalism; The Bible; or Literature from 1789 to 1837; or Modern Drama	2 or 3
History 21—U. S. since 1877, or 26—The Latin American Colonies	3
Language	4
Philosophy 1—Logic, and Phil. 9—Political Ethics, or Pol. Sci. 5—Const. Law	3 or 2 or 4
Pol. Sci. 14—Political Parties, or Pol. Sci. 4—Municipal Gov't	3
Psychology 1—Introd. to Psychology	3
Rhet. 6, 15, 26, 28—Short Story, Editorials and Special Articles, Editorial Practise, Newspaper Problems	3
Sociology 1—Principles of Sociology	3
Bus. Org. and Op. 10—Organization and Operation of Newspaper Publishing	2
Econ. 11, or 13, or 21—Industrial Consolidation, or Econ. Hist. of Europe, or Socialism and Social Reform	3 or 2
English, 28 and 24 or 3 or 5—Hist. of Journalism, Victorian Period, Milton, Shakespeare	2 or 3
History 17, 27, 29—Hist. of Illinois, Latin America, The Far East	3 or 2
Language	4
Philosophy 2—Introd. to Phil	3
Pol. Sci. 18, or 28—Contemporary Politics	3 or 2
Psychology 1—Introd. to Psychology	3
Rhet. 16, 17, 27, 29—Editorials and Special Articles, Advanced Composition, Editorial Practise, Making a Country Newspaper	2 or 3
Sociology 9—Criminology	3

CURRICULUM PRELIMINARY TO LAW

It is recognized by the best authorities on legal education that professional studies in law should be preceded by a thoro course in the humanities and the sciences. As a foundation for the study and practise of law, the following subjects offered by this College are of special importance: English, with special reference to composition and public speaking; Latin and French; logic; constitutional and political history; political science; economics; sociology.

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[1] For new additional courses in journalism see the description of courses beginning on page 241. under English (Rhetoric).

[2] Semester hours. For definition, see page 243.

Suggested two-year Curriculum Preparatory to Law

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Foreign language	4	Foreign language	4
Hist. 2a—English History	3	Hist. 2b—English History	3
Mathematics or science	5	Math. 2—Trigonometry	3
Rhet. 1—Rhetoric and Themes	3	Rhet. 1—Rhetoric and Themes	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Phys. Tr. 2—Gymnasium	1
Mil. 1a—Military Drill	½	Mil. 2a—Military Drill	½
Mil. 1b—Military Theory	½	Mil. 2b—Military Theory	½
Total	17	Total	16

SECOND YEAR

FIRST SEMESTER	Hours	SECOND SEMESTER	Hours
Econ. 1—Principles of Economics	5	Econ. 3—Money and Banking	3
Hist. 3a—History of the U. S.	3	Eng. 20—Chief English Writers	4
Mathematics or science or foreign languages	5 or 4	Hist. 3b—History of the U. S.	3
Pol. Sci. 1—American Government	3	Philos. 1—Logic	3
Mil. 3a—Military Drill	½	Pol. Sci. 3—State and Local Government	3
Mil. 3b—Military Regulations	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	17 or 16	Total	17

By the proper selection of his studies it is possible for a prospective law student to take both the degree in arts and the degree in law in six years. During his junior and senior years a student in the College of Liberal Arts and Sciences who has earned at least 30 hours in this college may take and count toward the degree of Bachelor of Arts not to exceed 30 hours of credit in law. *Students are not permitted to begin this work in law until their junior year.* If the student is also a candidate for the degree of Bachelor of Laws or Doctor of Law, he must in each semester of his fourth year register both in the College of Law and in the College of Liberal Arts and Sciences.

The degree of Bachelor of Arts is conferred at the close of the fourth year of the combined course provided that all the requirements for the degree are met at that time.

Students admitted to this University from other institutions may count the above courses in law for the degree of Bachelor of Arts only on condition of completing at least 30 hours' work in residence in subjects offered by the College of Liberal Arts and Sciences.

HOUSEHOLD SCIENCE

The courses of instruction given in this department are planned to meet the needs of four classes of students: (a) those students who desire a knowledge of the general principles and facts of household science; (b) those students who wish to make a specialty of household science for the purpose of teaching the subject in secondary schools and colleges; (c) those students who wish some knowledge of the principles underlying household administration and institutional management; (d) those students who are interested in the work of dietitians.

The suggested curriculums for teachers and for institutional workers are outlined below. The first three years of the curriculum as outlined for teachers give a scientific basis for the work of the dietitian. Students who wish to be recommended by the department for teaching, whether in the schools or in hospitals, are advised to take Household Science 13 and 11.

Students who hold *scholarships in household science* must make this subject their major along one of the lines indicated above and take each semester at least four hours in household science or in subjects required for admission to courses in household science.

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[1] Semester hours. For definition, see page 243.

Students who major in household science in the College of Liberal Arts and Sciences must also satisfy the other requirements for the degree of Bachelor of Arts in so far as these are not covered in the curriculums given below.

Suggested Curriculum for Teachers of Household Science

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours
Chem. 1—Inorganic Chemistry or	5	Chem. 2a—Inorg. Chem. and Qual. Anal.	5
Chem. 1a[2]—Inorganic Chemistry	3	Foreign language	4
Foreign language	4	H. Sci. 1[3]—Principles of the Selection and Preparation of Food	3
H. Sci. 2—Home Arch. and Sanitation	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1—Rhetoric and Themes	3	Phys. Tr. 7—Physical Training	1
Phys. Tr. 7—Physical Training	1		
Phys. Tr. 9—Hygiene	1		
Total	14 or 16	Total	16

SECOND YEAR

A. and D. 1—Free Hand Drawing	3	A. and D. 12—Applied Design	2
Chem. 13a—Agricultural Analysis	5	Bot. 1—General Botany or Zool. 1—General Zoology	5
Eng. 1—Survey of English Literature	4	Chem. 9—Organic Chemistry	3
H. Sci. 6—Economic Uses of Food	4	Chem. 9c—Organic Synthesis	2
Lib. Sci. 12—General Reference	2	Eng. 2—Survey of English Literature	4
		H. Sci. 7—Textiles	2
Total	18	Total	18

THIRD YEAR

Hist. 1a—Continental European Hist. or Hist. 3a—History of the U. S.	4 or 3	Bact. 5—Introductory Bacteriology	5
H. Sci. 19—Dress Design	3	Hist. 1b—Continental European Hist. or Hist. 3b—History of the U. S.	4 or 3
Physiol. 4—General Physiology	5	H. Sci. 3—Home Decoration	3
		H. Sci. 5—Dietetics	3
		H. Sci. 12—Clothing	3
Total	12 or 11	Total	18 or 17
Electives		*Electives*	
Philos. 1—Logic	3	Econ. 2—Principles of Economics	3
Psychol. 1—Introduction to Psychology	3	H. Sci. 14—Problems in the Preparation and Service of Food	3
		Philos. 2—Introduction to Philosophy	3
		Psychol. 2—General Psychology	3

FOURTH YEAR

Educ. 1—Introduction to Education	4	Educ. 10—Technic of Teaching	3
H. Sci. 4—Food and Nutrition	5	H. Sci. 11—Teachers' Course	3
H. Sci. 13—Hist. of Home Economics	2	Total	6
Total	11	*Electives*	
Electives		English, advanced	
Educ. 16—Social Education	3	H. Sci. 10—Home Management	2
English, advanced		H. Sci. 17—Problems in Textiles	3
H. Sci. 18—Lunch Room Management	5	Public Speaking 2—Oral Expression	2
Public Speaking 1—Oral Expression	2	Sociol. 7—Social Problems of the Rural Community	2
Sociol. 1—Principles of Sociology	3		

Suggested Curriculum in Household Administration

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Chem. 1—Inorganic Chemistry or	5	Chem. 2a—Inorg. Chem. and Qual. Anal.	5
Chem. 1a[2]—Inorganic Chemistry	3	Foreign language	4
Foreign Language	4	H. Sci. 1[3]—Principles of the Selection and Preparation of Food	3
H. Sci. 2—Home Arch. and Sanitation	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1—Rhetoric and Themes	3	Phys. Tr. 7—Physical Training	1
Phys. Tr. 7—Physical Training	1		
Phys. Tr. 9—Hygiene	1		
Total	16 or 14	Total	16

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[1] Semester hours. For definition see page 243.

[2] If Chemistry 1a is taken, a 2-hour elective must be added, with the approval of the adviser.

[3] Attention is called to the fact that high school physics is a prerequisite for Household Science 1.

SECOND YEAR

A. and D. 1—Free Hand Drawing	3	A. and D. 12—Applied Design	2
Foreign language or English 1	4	Bot. 1—General Botany or Zool. 1—General Zoology	5
H. Sci. 6—Economic Uses of Food	4	Foreign language or English 2	4
H. Sci. 7—Textiles	2		
Total	13	Total	11
Electives		*Electives*	
A. and D. 19—History of the Fine Arts	2	A. and D. 20—History of the Fine Arts	2
Chem. 13a[1]—Agricultural Analysis or Econ. 26[1]—Economic Resources	5 or 3	Chem. 9[1]—Organic Chemistry and Chem. 9c—Organic Synthesis or Econ. 22[1]—Econ. Hist. of U. S.	5 or 3
Hist. 1a—Continental European Hist. or Hist. 3a—History of the U. S.	4 or 3	Hist. 1b—Continental European Hist. or Hist. 3b—History of the U. S.	4 or 3
Lib. Sci. 12—General Reference	2		

THIRD YEAR

Econ. 1—Principles of Economics	5	H. Sci. 3—Home Decoration	3
H. Sci. 19—Dress Design	3	H. Sci. 5—Dietetics	3
Physiol. 4—General Physiology	5	H. Sci. 12—Clothing	3
Total	13	Total	9
Electives		*Electives*	
English		H. Sci. 10—Home Management	2
H. Sci. 14—Problems in the Preparation and Service of Food	3	Philos. 2—Introduction to Philosophy	3
Psychol. 1—Introduction to Psychology	3	Pol. Sci. 3—State and Local Government	3
Sociol. 1—Principles of Sociology	3	Pol. Sci. 16—Government of Illinois	2
		Psychol. 2—General Psychology or Educ. 1—Introd. to Education	3 or 4

FOURTH YEAR

Electives		*Electives*	
Educ. 1—Introduction to Education	4	Educ. 10—Technic of Teaching	3
English, advanced		English, advanced	
H. Sci. 4—Food and Nutrition	5	H. Sci. 9—Seminar	3
H. Sci. 13—History of Home Economics	2	H. Sci. 11—Teachers' Course	3
H. Sci. 15—Economics of the Family Group	3	H. Sci. 17—Problems in the Study of Textiles	3
H. Sci. 18—Lunch Room Management	5	H. Sci. 28—Organization of the Household	3

PRE-MEDICAL CURRICULUM

The One-Year Medical College at Urbana, providing opportunity for registration at Urbana for the freshman year of a four-year medical course, has been discontinued for the year 1917–18, together with the Six-Year Medical Curriculum (three years at Urbana and three at the College of Medicine in Chicago) and the Seven-Year Medical Curriculum (four years at Urbana and three in Chicago). Students who have completed their two years of pre-medical studies and desire to begin a medical course should enroll as freshmen in the College of Medicine in Chicago.

The requirement for admission to the College of Medicine is as follows:

(a) Fifteen units of high school work, including English, 3 units: algebra, 1; plane geometry, 1; foreign language (Latin or Greek or French or German), 2; American history and civics, 1; electives, 7.

(b) Sixty semester hours of collegiate credit, including physics, 8 hours; chemistry, 8; biology, 8; French or German, 6; electives, 30.

Conditions are permitted, for the year 1917–18, in collegiate French or German, 6 hours, or electives, 8 hours. No conditions are permitted in high-school subjects or in the collegiate physics, chemistry, or biology.

The following two-year pre-medical curriculum covers the entrance requirement of the College of Medicine as outlined in the preceding paragraph, and includes additional courses in science which it is considered desirable for prospective medical students to take. This course of study is recommended to students who enter the College of Liberal Arts and Sciences to prepare themselves for the study of medicine.

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[1] Choice depends on whether the student wishes to emphasize the sciences or economics as a minor.

Suggested Pre-Medical Curriculum

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Chem. 1—General Chemistry	5	Chem. 2a—Inorganic Chemistry	5
Math. 4—Trigonometry	2	Zool. 2—Vertebrate Zoology	5
Zool. 1—General Zoology	5	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[2]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½		
Total	17	Total	15

SECOND YEAR

Chem. 5a—Quantitative Analysis	5	Chem. 9, 9c—Organic Chemistry	5
German 1 or 4	4	German 3 or 5 or 6	4
Physics 7a—General Physics	2½	Physics 7b—General Physics	2½
Physics 8a—Laboratory	2½	Physics 8b—Laboratory	2½
Zool. 3—Microscopical Technics	3	Zool. 6—Vertebrate Organogeny	3
Mil. 3a—Military Drill	½	Mil. 4a—Military Drill	½
Mil. 3b—Military Theory	½	Mil. 4b—Military Theory	½
Total	18	Total	18

CURRICULUMS IN CHEMISTRY

Students who follow the General Curriculum in the College of Liberal Arts and Sciences with chemistry as a major subject are eligible for the degree of Bachelor of Arts.

For the more specialized training of the chemist the following curriculums, largely prescribed, have been arranged. Each requires a maximum total of 136 hours, and leads to the degree of Bachelor of Science.

Preliminary preparation in German or French equivalent to two years of high school work or one year of university work is prescribed. The total language requirement for graduation, including courses offered for entrance, must be equivalent to two years of university German and one year of university French.

Curriculum in Chemistry

In the following schedule of courses, after the second year there are offered certain *prescribed subjects* required of all students and in addition five *group options*, the last four of which are outlined for the purpose of affording systematic training along certain important lines of applied chemistry. The first option, A, is intended for those students who wish to place chief emphasis on the fundamental branches of chemistry as a science and for those students who desire a combination of subjects not outlined in the other four groups. Students in option A must submit to their adviser at the beginning of the junior year an outline of their proposed program for the junior and senior years. Approval of such an outline must be secured from the adviser before registering. At least 12 hours of the electives under option A must be in chemistry and it is recommended that they be selected as far as possible from more advanced courses in inorganic, analytical, organic, and physical chemistry. In all groups, except B, 10 hours of the electives must be taken outside of the department and must include a course in economics.

The groups provided for, with the letter used to designate each group, are as follows:

A. General
B. Electrochemical
C. Industrial
D. Food and Sanitation
E. Physiological

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[1] Semester hours. For definition see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

FIRST YEAR

FIRST SEMESTER

	Hours[1]
Chem. 1 or 1a—Inorganic Chemistry	5 or 3
German or French	4
Math. 2—College Algebra	3
Math. 4—Plane Trigonometry	2
Rhet. 1—Rhetoric and Themes	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1
Mil. 1a—Military Drill	½
Mil. 1b—Military Theory	½
Total	19 or 17

SECOND SEMESTER

	Hours[1]
Chem. 3a—Inorganic Chemistry and Qualitative Analysis	6
German or French	4
Math. 6—Analytical Geometry	5
Phys. Tr. 2—Gymnasium	1
Mil. 2b—Drill Regulations	½
Mil. 2a—Military Drill	½
Total	18

SECOND YEAR

Chem. 5a—Quantitative Analysis	5
French or German	4
Phys. 1a—General Physics	3
Phys. 3a—Physical Measurements	2
Rhet. 2—Rhetoric and Themes	3
Mil. 3a—Military Drill	½
Mil. 3b—Military Theory	½
Total	18

Chem. 5b—Advanced Analytical Chemistry	5
French or German	4
History 2 or 3 or English 20	3
Phys. 1b—General Physics	2
Phys. 3b—Physical Measurements	2
Mil. 4a—Military Drill	½
Mil. 4b—Military Theory	½
Total	17

THIRD YEAR

Prescribed for all Groups	
Chem. 14c—Organic Synthesis and Ultimate Analysis	2
Chem. 14a—Organic Chemistry	4
Chem. 92a—Journal Meeting	1
Math. 8—Differential and Integral Calculus	5
Total	12
Group Options	
A.—General	
Electives	5
B.[2]—Electrochemical	
Economics 1; or Economics 2 with 3 additional hours other than chemistry	5
C.—Industrial	
Chem. 65—Technical Gas and Fuel Analysis	2
E. E. 8—Electric Currents and Apparatus	3
E. E. 68—Electrical Engineering Laboratory	1
D. and E.—Food and Physiological	
Bact. 5—Introductory Bacteriology	5

Prescribed for all Groups	
Chem. 14d—Organic Synthesis and Qualitative Analysis	2
Chem. 14b—Principles of Organic Chemistry	2
Chem. 31—Principles of Physical Chemistry	4
Chem. 33—Physical Chemistry Laboratory	2
Chem. 92b—Journal Meeting	1
Chem. 90—Inspection Trip	0
Total	11
Group Options	
A.—General	
Electives	5
B.—Electrochemical	
E. E. 8—Electric Currents and Apparatus	3
E. E. 68—Electrical Engineering Laboratory	1–7
Math. 9	3
C.—Industrial	
Elective	6
D. and E.—Food and Physiological	
Chem. 15—Physiological Chemistry	5
Elective	2–7

FOURTH YEAR

Prescribed for all Groups	
Chem. 11a—Research	3
Chem. 93a—Journal Meeting	1
Chem. 95—History of Chemistry	2
Total	6
Group Options	
A.—General	
Electives	11
B.—Electrochemical	
Chem. 35—Electrochemistry	3
Chem. 37—Experimental Problems in Physical and Electrochemistry	4
Electives	2–11
Phys. 4a—Electrical and Magnetic Measurements	2
C.—Industrial	
Chem. 7—Metallurgy	3
Chem. 35—Electrochemistry	3
Chem. 69—Met. Lab. and Assaying	2
Electives	3–11
D.—Food and Sanitation	
Chem. 5c—Food Analysis	5
Chem. 21—Qual. Organic Analysis	2
Electives	3–10
E.—Physiological	
Chem. 15a	5
Electives	5–10

Prescribed for all Groups	
Chem. 6—Chemical Technology	3
Chem. 11b—Research	7
Chem. 93b—Journal Meeting	1
Chem. 91—Inspection Trip	0
Total	11
Group Options	
A.—General	
Electives	5
B.—Electrochemical	
Electives	2–5
Philos. 1—Logic	3
C.—Industrial	
Chem. 61—Industrial Laboratory	3
Electives	3–6
D. and E.—Food and Physiological	
Electives	5

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[1] Semester hours. For definition see page 243.

[2] Students electing Option B must register in Mathematics 7.

Curriculum in Chemical Engineering

The work of the technical chemist or superintendent is frequently so closely associated with mechanical and other engineering lines as to make a knowledge of these subjects essential. To meet these conditions, the following four-year curriculum in chemistry and related engineering subjects has been arranged. The degree given is that of Bachelor of Science in chemical engineering.

It is advised that students intending to take this curriculum be prepared to offer mechanical drawing for entrance or arrange to take General Engineering Drawing 1 or S1.

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Chem. 1a or 1—Inorganic Chemistry	3 or 5	Chem. 3a—Inorganic Chemistry and Qualitative Analysis	6
German 4—Prose Reading	4	German 6—Scientific German	4
Math. 2—College Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Plane Trigonometry	2	P. T. 2—Gymnasium	1
P. T. 1—Gymnasium	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½		
Total	14 or 16	Total	17

SECOND YEAR

Chem. 5a—Quantitative Analysis	5	Chem. 5b—Advanced Analytical Chemistry	5
Math. 8—Differential and Integral Calculus	5	Phys. 1b—General Physics	2
Phys. 1a—General Physics	3	Phys. 2b—Physical Measurements	2
Phys. 3a—Physical Measurements	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[2]—Rhetoric and Themes	3	T. and A. M. 20—Analytical Mechanics	3
Mil. 3a—Military Drill	½	Mil. 4a—Military Drill	½
Mil. 3b—Military Theory	½	Mil. 4b—Military Theory	½
Total	19	Total	16

THIRD YEAR

Chem. 14c—Organic Synthesis and Ultimate Analysis	2	Chem. 14d—Organic Synthesis and Qualitative Organic Analysis	2
Chem. 14a—Organic Chemistry	4	Chem. 14b—Organic Chemistry	2
Chem. 92a—Journal Meeting	1	Chem. 31—Physical Chemistry	4
M. E. 75—Forge Work	1	Chem. 33—Physical Chemistry Laboratory	2
M. E. 77—Foundry Work	2	Chem. 92b—Journal Meeting	1
T. and A. M. 21—Analytical Mechanics	2	E. E. 8—Electrical Currents and Apparatus	3
T. and A. M. 25—Resistance of Materials	4	E. E. 68—Electrical Engineering Laboratory	1
Electives, outside Chemistry[3]	2	Inspection trip	
		Electives outside of the department[2]	2
Total	18	Total	17

FOURTH YEAR

Chem. 7—General Metallurgy and Iron and Steel	3	Chem. 6—Chemical Technology	3
Chem. 11a—Research	3	Chem. 11b—Research	6
Chem. 35—Electrochemistry	3	Chem. 61—Industrial Chemical Laboratory	3
Chem. 65—Technical Gas and Fuel Analysis	2	Chem. 93b—Journal Meeting	1
Chem. 69—Assaying	2	M. E. 64—Mechanical Engineering Laboratory	3
Chem. 93a—Journal Meeting	1	Inspection trip	
M. E. 1—Steam and Air Machinery	3	Electives[3]	
Electives[3]			
Total	17	Total	16

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

[3] During the third and fourth years students must elect a total of four hours in subjects other than Chemistry. If Military is elected no other electives may be taken.

THE COLLEGE OF COMMERCE AND BUSINESS ADMINISTRATION

For a description of the *building* used by this College, see page 52, for *museum and collections* belonging to it, see page 62; for *societies and clubs* auxiliary to its curriculums, see page 102: for *fees*, see page 110.

ORGANIZATION

The College of Commerce and Business Administration was established by the Board of Trustees in April, 1915, and opened the following September. The new college was given control of all the work formerly conducted by the department of economics, including the courses in business administration. The work of the college is divided into three separate departments as follows: economics, including finance and statistics; business organization and operation, including accountancy and business law; and transportation.

PURPOSE

The purpose of the College of Commerce and Business Administration is to give its students a knowledge of the principles underlying all lines of business with special training for particular business callings. The College does not attempt to prepare students for clerical and similar occupations as employees, but does endeavor to lay a broad foundation on which successful careers in managerial and administrative positions and as proprietors may be built. To this end courses in economics, accountancy, business organization and operation, banking, commerce, railway administration, and industry are offered in combination with courses in language and literature, the social sciences, law, mathematics, and the natural sciences.

ADMISSION

See the statement of the entrance requirements of the University, pages 67–83.

SPECIAL STUDENTS

See the statement of the general regulations of the University in regard to special students, page 74.

REQUIREMENTS FOR GRADUATION

I. The New Requirements—Degree of Bachelor of Science

Students who entered the College of Commerce and Business Administration with the class of 1919 and subsequent classes will be given the degree of Bachelor of Science.

The requirements for the degree are as follows:

1. A candidate must comply with the University requirements as to residence and registration, and secure credit amounting to 130 hours, including the general requirements of *Rhetoric 1-2, 6 hours*; and *Physical Training 1, 1a, and 2, 2 hours*, for men, and *7a-7b and 9, 3 hours*, for women; and *Military Science 1a, 2a, 3a, 4a and 1b, 2b, 3b, 4b, 4 hours*, for men. Students who elect the Reserve Officers' Training Corps must also take *Military Science 5a, 6a, 7a, 8a and 5b, 6b, 7b, 8b, 4 hours.*

2. A candidate must secure credit in the subjects listed as *prescribed* in his chosen curriculum.

3. Of the electives allowed, 8 hours must be either in English literature or in foreign language in all curriculums, but prescribed courses in either of these subjects may be counted in meeting this requirement.

4. In the General Business Curriculum, the Curriculums in Banking, Insurance, Accountancy, the Railway Administration, Commerce and Law, and the Curriculum for Commercial and Civic Secretaries, 12 hours must be elected from the following group of subjects: History, political science, philosophy, psychology, and sociology, provided that not less than six hours in any one subject may be counted in fulfilling this requirement; but prescribed courses in any of these subjects may be counted.

5. Ten hours must be elected from the following group of subjects: Chemistry, mathematics, and physics, provided that not less than 5 hours in any one subject may be counted in fulfilling this requirement; but prescribed courses in any of these subjects may be counted.

6. Free electives sufficient to make up the 130 hours required for graduation may be selected from any department of the University. Such electives must, however, be chosen with a view to promoting the specific object of the curriculum pursued and must have the approval of the Dean of the College.

II. The Old Requirements—Degree of Bachelor of Arts

The graduation requirements for former students in the Curriculum in Business Administration will remain as they have been in the past and such students will be given the degree of Bachelor of Arts.

The requirements are as follows:

1. Credit amounting to 130 hours, including the prescribed rhetoric, physical training, and military.

2. At least 8 hours in each of the following groups of subjects:
   I. English language and literature, including rhetoric.
   II. Latin, Greek, French, German, Italian, Spanish.
   III. History, economics, sociology, and political science.
   IV. Mathematics, education, philosophy, and psychology.
   V. Astronomy, botany, chemistry, entomology, geology, physiology, physics, and zoology.

3. Credit in the following subjects:
   I. Six hours of freshman economics (Economics 7, 22, 26, and 27). In case of students transferring from other colleges with advanced standing this requirement may be modified to suit the individual needs.
   II. Principles of Economics (Economics 1).
   III. Business Writing (Rhetoric 10).
   IV. Principles of Accounting (Accountancy 1a-1b).
   V. Commercial Law (Business Law 1a-1b).

4. A major of 24 hours in economics, but not more than six hours of freshman economics (Economics 7, 22, 26, and 27) may be counted towards the major. Courses in accountancy and business law may not be counted toward the major.

NOTE.—The outlines of the curriculums on the following pages must be used in connection with the foregoing statement of requirements and attention given to the additional subjects prescribed in the fourth year under the old requirements for graduation.

THE CURRICULUMS

The curriculums in commerce and business administration are now in process of transition as a result of the reorganization of the former *Courses in Business Administration* as the *College of Commerce and Business Administration.* The outlines which follow show the complete curriculums under the new requirements for graduation and the fourth year under the old requirements for graduation.

The subjects listed in each curriculum under the new requirements are prescribed for graduation. Sufficient electives must be taken each semester to make up a minimum of 15 hours, but not to exceed a maximum of 18 hours of work. In choosing electives the attention of students is called to provisions 3, 4, and 5 of the new requirements for graduation. It is advisable that the electives there mentioned be taken as far as possible in the first two years in order to leave more opportunity for free electives in the last two years.

General Business Curriculum

Under the New Requirements for Graduation

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Acc'y 1a—Principles of Accounting	3	Acc'y 1b—Principles of Accounting	3
Econ. 26—Economic Resources	3	Econ. 22—Economic History of the United States	3
Rhet. 1[2]—Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Phys. Tr. 2—Gymnasium	1
Mil. 1a—Military Drill	½	Mil. 2a—Military Drill	½
Mil. 1b—Military Theory	½	Mil. 2b—Military Theory	½
Electives	4–7	Electives	4–7
Total	15–18	Total	15–18

SECOND YEAR

Acc'y 2a—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 1—Principles of Economics	5	Econ. 3—Money and Banking	3
Rhet. 10—Business Writing	2	Mil. 4a—Military Drill	½
Mil. 3a—Military Drill	½	Mil. 4b—Military Theory	½
Mil. 3b—Military Theory	½	Electives	8–11
Electives	4–7		
Total	15–18	Total	15–18

THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Law 1b—Commercial Law	3
Bus. Law 1a—Commercial Law	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution	2
Econ. 28—Domestic Commerce	3	Econ. 10—Corporation Management and Finance	3
Trans. 1—Transportation System of the United States	3	Rhet. 22—Summarizing and Briefing	2
Electives	3–6	Trans. 12—Freight Shipment	2
		Electives	3–6
Total	15–18	Total	15–18

FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship	2	Bus. Org. and Op. 8—Advertising	2
Econ. 5—Public Finance	3	Econ. 31—Organization of Foreign Commerce	3
Electives	10–13	Electives	10–13
Total	15–18	Total	15–18

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

Under the Old Requirements for Graduation

FOURTH YEAR FOR THE CLASS OF 1918

Prescribed Subjects		*Prescribed Subjects*	
Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Total	3	Total	3
Suggested Electives		*Suggested Electives*	
Acc'y 2a—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3
Bus. Org. and Op. 7—Salesmanship	3	Bus. Org. and Op. 4—Industrial Organization and Management	2
Econ. 4—Financial History of U. S.	3	Bus. Org. and Op. 8—Advertising	3
Econ. 12a—Labor Problems	3	Econ. 12b—Labor Problems	3
Philos. 9—Political and Social Ethics	3		

Curriculum for Commercial and Civic Secretaries

Under the New Requirements for Graduation

The first and second years of this curriculum are the same as in the General Business Curriculum except that Political Science 1—American Government (3)—is prescribed in the first semester of the second year, while Rhetoric 10—Business Writing (2)—is transferred to the second semester.

THIRD YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Org. and Op. 2—Organization an Control of Mercantile Distribution	2
Econ. 28—Domestic Commerce	3	Econ. 10—Corporation Management and Finance	3
Pol. Sci. 4—Municipal Government	3	Rhet. 22—Summarizing and Briefing	2
Sociol. 8—Charities	3	Trans. 12—Freight Shipment	2
Electives	3–6	Electives	6–9
Total	15–18	Total	15–18

FOURTH YEAR

Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Econ. 5—Public Finance	3	Bus. Org. and Op. 8—Advertising	2
Electives	9–12	Bus. Org. and Op. 9—Commercial and Civic Organizations	1
		Hort. 10b—Town Improvement	2
		Electives	7–10
Total	15–18	Total	15–18

Under the Old Requirements for Graduation

FOURTH YEAR FOR THE CLASS OF 1918

Prescribed Subjects		*Prescribed Subjects*	
Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Bus. Org. and Op. 7—Salesmanship	2	Bus. Org. and Op. 4—Industrial Organization and Management	2
		Bus. Org. and Op. 9—Commercial and Civic Organizations	1
		Bus. Org. and Op. 8—Advertising	2
		Trans. 12—Freight Shipment	2
Total	5	Total	10
Suggested Electives		*Suggested Electives*	
Econ. 12a—Labor Problems	3	Econ. 21—Socialism and Economic Reform	2
Econ. 11—Industrial Consolidations	3	Econ. 12b—Labor Problems	3
Sociol. 10—Population	3	Sociol. 9—Criminology	3
Trans. 1—Transportation System	3		

Curriculum in Banking

Under the New Requirements for Graduation

The first and second years are the same as in the General Business Curriculum except that Mathematics 2—College Algebra (3)—is prescribed in the first semester of the first year.

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[1] Semester hours. For definition, see page **243.**

THIRD YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution	2
Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Econ. 5—Public Finance	3	Econ. 10—Corporation Management and Finance	3
Econ. 28—Domestic Commerce	3	Math. 23—Mathematics of Investment	3
Electives	3–6	Electives	4–7
Total	15–18	Total	15–18

FOURTH YEAR

Econ. 9—Practical Banking	2	Econ. 8—The Money Market	2
Econ. 4—Financial History of the United States	3	Econ. 31—Organization of Foreign Commerce	3
Electives	10–13	Electives	10–13
Total	15–18	Total	15–18

Under the Old Requirements for Graduation

FOURTH YEAR FOR THE CLASS OF 1918

Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Econ. 4—Financial History of United States	3	Econ. 8—The Money Market	2
Econ. 9—Practical Banking	2		
Total	8	Total	5
Suggested Electives		*Suggested Electives*	
Acc'y 2a—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 12a—Labor Problems	3	Bus. Org. and Op. 4—Industrial Organization and Management	2
Econ. 33—Economics of Insurance	2	Econ. 12b—Labor Problems	3
Philos. 9—Political and Social Ethics	3	Econ. 34—Property Insurance	2

Curriculum in Insurance

Under the New Requirements for Graduation

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Acc'y 1a—Principles of Accounting	3	Acc'y 1b—Principles of Accounting	3
Econ. 26—Economic Resources	3	Econ. 22—Economic History of the United States	3
Math. 2—College Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[2]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Electives	0–2
Electives	0–2		
Total	16–18	Total	16–18

SECOND YEAR

Acc'y 2a—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 1—Principles of Economics	5	Econ. 3—Money and Banking	3
Math. 8—Differential and Integral Calculus	5	Rhet. 10—Business Writing	2
Mil. 3a—Military Drill	½	Mil. 4a—Military Drill	½
Mil. 3b—Military Theory	½	Mil. 4b—Military Theory	½
Electives	1–4	Electives	6–9
Total	15–18	Total	15–18

THIRD YEAR

Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution	2
Econ. 5—Public Finance	3	Econ. 10—Corporation Management and Finance	3
Econ. 28—Domestic Commerce	3	Math. 23—Mathematics of Investment	3
Electives	3–6	Electives	4–7
Total	15–18	Total	15–18

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship	2	Bus. Org. and Op. 8—Advertising	2
Econ. 33—Economics of Insurance	2	Econ. 34—Property Insurance	2
Econ. 9—Practical Banking	2	Math. 31—Actuarial Theory	3
Math. 31—Actuarial Theory	3	Electives	8–11
Electives	6–9		
Total	15–18	Total	15–18

Under the Old Requirements for Graduation

FOURTH YEAR FOR THE CLASS OF 1918

Prescribed Subjects		*Prescribed Subjects*	
Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Econ. 33—Economics of Insurance	2	Econ. 34—Property Insurance	2
Total	5	Total	5
Suggested Electives		*Suggested Electives*	
Bus. Org. and Op. 7—Salesmanship	2	Bus. Org. and Op. 4—Industrial Organization and Management	2
Econ. 4—Financial History of United States	3	Bus. Org. and Op. 8—Advertising	2
Econ. 9—Practical Banking	2	Econ. 8—Money Market	2
Econ. 12a—Labor Problems	3	Econ. 12b—Labor Problems	3
Philos. 9—Political and Social Ethics	3		

Curriculum in Accountancy

Under the New Requirements for Graduation

The first and second years are the same as in the General Business Curriculum except that Mathematics 2—College Algebra (3)—is prescribed in the first semester of the first year.

THIRD YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Acc'y 3a—Accounting Problems and Auditing	3	Acc'y 3b—Accounting Problems and Auditing	3
Bus. Law 1a—Commercial Law	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution	2
Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Law 1b—Commercial Law	3
Econ. 28—Domestic Commerce	3	Econ. 10—Corporation Management and Finance	3
Electives	3–6	Math. 23—Mathematics of Investment	3
		Electives	1–4
Total	15–18	Total	15–18

FOURTH YEAR

Acc'y 5a—C. P. A. Problems	2	Acc'y 5b—C. P. A. Problems	2
Econ. 9—Practical Banking	2	Electives	13–16
Econ. 11—Industrial Consolidations	3		
Electives	6–9		
Total	15–18	Total	15–18

Under the Old Requirements for Graduation

FOURTH YEAR FOR THE CLASS OF 1918

Prescribed Subjects		*Prescribed Subjects*	
Acc'y 3a—Accounting Problems and Auditing	3	Acc'y 3b—Accounting Problems and Auditing	3
Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commecrial Law	3
Total	6	Total	6
Suggested Electives		*Suggested Electives*	
Econ. 11—Industrial Consolidation	3	Bus. Org. and Op. 4—Industrial Organization and Management	2
Econ. 9—Practical Banking	2	Econ. 8—Money Market	2
Econ. 12a—Labor Problems	3	Econ. 12b—Labor Problems	3
Philos. 9—Political and Social Ethics	3		

Curriculum in Railway Administration

Under the New Requirements for Graduation

The first year of this curriculum is the same as the first year of the Curriculum in Insurance.

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[1] Semester hours. For definition, see page 243.

SECOND YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Acc'y 2a—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 1—Principles of Economics	5	Econ. 3—Money and Banking	3
Rhet. 10—Business Writing	2	Trans. 12—Freight Shipment	2
Trans. 7—Railway Organization	2	Mil. 4a—Military Drill	½
Mil. 3a—Military Drill	½	Mil. 4b—Military Theory	½
Mil. 3b—Military Theory	½	Electives	6–9
Electives	2–5		
Total	15–18	Total	15–18

THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Law 1b—Commercial Law	3
Bus. Law 1a—Commercial Law	3	Trans. 2—Transportation Policy in Europe and the United States	3
Trans. 1—Transportation System of the United States	3	Trans. 22—Railway Train Service or Trans. 26—Economics of Railway Location and Maintenance	3
Trans. 13—Railway Traffic Administration or Trans. 17—Railway Terminal Management	3	Electives	6–9
Electives	3–6		
Total	15–18	Total	15–18

FOURTH YEAR

Econ. 12a—Labor Problems	3	Econ. 10—Corporation Management and Finance	3
Econ. 28—Domestic Commerce	3	Econ. 12b—Labor Problems	3
Trans. 17—Railway Terminal Management or Trans. 13—Railway Traffic Administration	3	Trans. 26—Economics of Railway Location and Maintenance or Trans. 22—Railway Train Service	3
Electives	6–9	Electives	6–9
Total	15–18	Total	15–18

Under the Old Requirements for Graduation

FOURTH YEAR FOR THE CLASS OF 1918

Acc'y 3a—Accounting Problems and Auditing	3	Acc'y 3b—Accounting Problems and Auditing	3
Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Trans. —Railway Traffic Administration or Trans. 17—Railway Terminal Management	3	Trans. 26—Economics of Railway Location and Maintenance or Trans. 22—Railway Train Service	3
Trans. 35a—Thesis	2	Trans. 35b—Thesis	2
Electives	4–7	Electives	4–7
Total	15–18	Total	15–18

Curriculum in Railway Transportation

Under the New Requirements for Graduation

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Acc'y 1a—Principles of Accounting	3	Acc'y 1b—Principles of Accounting	3
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Rhet. 2—Rhetoric and Themes	3
Math. 4—Trigonometry	2	Math. 6—Analytic Geometry	5
Rhet. 1[2]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Electives	0–1
Electives	0–1		
Total	17–18	Total	18

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them or Rhetoric 2, may be excused from Rhetoric 1. See page 73.

SECOND YEAR

Econ. 1—Principles of Economics	5	Econ. 3—Money and Banking	3
Math. 8—Differential and Integral Calculus	5	Physics 1b—General Physics	2
Physics 1a—General Physics	3	Physics 3b—Physical Measurements	2
Physics 3a—Physical Measurements	2	Rhet. 10—Business Writing	2
Trans. 7—Railway Organization	2	Trans. 12—Freight Shipment	2
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
		Electives	0–3
Total	18	Total	15–18

THIRD YEAR

Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Bus. Org. and Op. 1—Business Organization and Operation	3	C. E. 76—Surveying	2
Trans. 1—Transportation System of the United States	3	M. E. 2—Steam Engineering	3
Trans. 13—Railway Traffic Administration or Trans. 17—Railway Terminal Management	3	Trans. 2—Transportation Policy in Europe and the United States	3
Electives	3–6	Trans. 22—Railway Train Service or Trans. 26—Economics of Railway Location and Maintenance	3
		Electives	1–4
Total	15–18	Total	15–18

FOURTH YEAR

Econ. 12a—Labor Problems	3	E. E. 12—Alternating Current Apparatus	3
E. E. 11—Direct Current Apparatus	3	E. E. 62—Alternating Current Laboratory	1
E. E. 61—Direct Current Laboratory	1	Econ. 10—Corporation Management and Finance or Econ. 12b—Labor Problems	3
M. E. 61—Power Measurement	2	Trans. 26—Economics of Railway Location and Maintenance or Trans. 22—Railway Train Service	3
Trans. 17—Railway Terminal Management or Trans. 13—Railway Traffic Administration	3	Electives	5–8
Electives	3–6		
Total	15–18	Total	15–18

Under the Old Requirements for Graduation

FOURTH YEAR FOR THE CLASS OF 1918

Acc'y 1a—Principles of Accounting	3	Acc'y 1b—Principles of Accounting	3
Econ. 12a—Labor Problems	3	C. E. 76—Surveying	2
E. E. 11 and 61—Direct Current	4	Econ. 12b—Labor Problems	3
M. E. 62—Mechanical Engineering	3	E. E. 12 and 62—Alternating Current	4
Trans. 17—Railway Terminal Management or Trans. 13—Railway Traffic Administration	3	Trans. 26—Economics of Railway Location and Maintenance or Trans. 22—Railway Train Service	3
Trans. 35a—Thesis	2	Trans. 35b—Thesis	2
Total	18	Total	17

Curriculum for Commercial Teachers

Under the New Requirements for Graduation

The first and second years are the same as in the General Business Curriculum except that foreign language is prescribed in the first year, and Psychology 1—Introduction to Psychology (3), and Psychology 2—General Psychology (3)— in the second year.

THIRD YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Bus. Org. and Op. 1—Business Organization and Operation	3	Econ. 10—Corporation Management and Finance	3
Educ. 1—Introduction to Education	4	Educ. 2—History of Education	5
Pol. Sci. 1—American Government	3	Pol. Sci. 3—State and Local Government	3
Trans. 1—Transportation System of the United States	3	Trans. 12—Freight Shipment	2
Electives	0–2	Electives	2–5
Total	16–18	Total	15–18

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[1] Semester hours. For definition, see page 243.

FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship	2	Bus. Org. and Op. 8—Advertising	2
Econ. 28—Domestic Commerce	3	Econ. 29—Foreign Commerce or Econ. 31—Organization of Foreign Commerce	3
Educ. 15—Social Education	3	Educ. 10—The Technic of Teaching	3
Electives	7–10	Electives	7–10
Total	15–18	Total	15–18

Under the Old Requirements for Graduation

FOURTH YEAR FOR THE CLASS OF 1918

Prescribed Subjects		*Prescribed Subjects*	
Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Econ. 12a—Labor Problems	3	Econ. 12b—Labor Problems	3
Educ. 10—Observation and Technic of Teaching	3	Educ. 16—Social Education or Educ. 15—School Hygiene	2 or 3
Total	9	Total	8 or 9
Suggested Electives		*Suggested Electives*	
Acc'y 2a—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 4—Financial History of United States	3	Bus. Org. and Op. 4—Industrial Organization and Management	2
Econ. 9—Practical Banking	2	Econ. 8—The Money Market	2
Philos. 9—Political and Social Ethics	3	Econ. 21—Socialism and Economic Reform	2
		Trans. 12—Freight Shipment	2

Curriculum in Foreign Commerce

Under the New Requirements for Graduation

The first and second years of this curriculum are the same as in the General Business Curriculum except that foreign language is prescribed throughout both years.

THIRD YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Bus. Law 1a—Commercial Law	3	Bus. Law 1b—Commercial Law	3
Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution	2
Econ. 28—Domestic Commerce	3	Econ. 29—Foreign Commerce	3
Foreign Language	2 or 3	Econ. 10—Corporation Management and Finance	3
Hist. 3a—History of the United States	3	Foreign Language	2 or 3
Electives	0–3	Hist. 3b—History of the United States	3
		Electives	0–1
Total	15–18	Total	17–18

FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship	2	Econ. 8—The Money Market	2
Econ. 9—Practical Banking	2	Econ. 31—Organization of Foreign Commerce	3
Advanced History	3	Pol. Sci. 7—American Diplomacy	3
Pol. Sci. 6—International Law	3	Advanced History	3
Electives	5–8	Electives	4–7
Total	15–18	Total	15–18

Curriculum in Industrial Administration

Under the New Requirements for Graduation

The following curriculum is intended to meet the needs of commerce students planning to enter the administrative or selling departments of industrial plants. To the usual courses in economics, accounting, etc., are added certain groups of technical courses offered by other colleges of the University. For the present four such groups have been arranged, as follows: Group A, for those interested in the machine industries; Group B, the electrical industries; Group C, the building trades; Group D, the chemical industries. The student may select the one of these groups that will be most advantageous to him in his future work, but he is required to take all the courses listed in the chosen group. A student electing the chemical industries group is required to take Econ. 26—Economic Resources (3) and Econ. 22—Economic History of the United States (3), instead of G. E. D. 1—Elements of Drafting (4) and G. E. D. 2—Descriptive Geometry (4), in the first year; and Chem. 1 or 1a—Inorganic Chemistry (5 or 3), instead of Economics 22—Economic History of the United States (3) and T. and A. M. 20—Analytical Mechanics (3), in the second year.

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[1] Semester hours. For definition, see page 243.

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Acc'y 1a—Principles of Accounting	3	Acc'y 1b—Principles of Accounting	3
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—College Algebra	3	Math. 6—Analytic Geometry	5
Math 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rbet. 1[2]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Electives	0 or 2
Electives	0–1		
Total	17–18	Total	17–18

SECOND YEAR

Econ. 1—Principles of Economics	5	Econ. 3—Money and Banking	3
Math. 8—Differential and Integral Calculus	5	Econ. 23—Statistics	3
Phys. 1a—General Physics	3	Phys. 1b—General Physics	2
Phys. 3a—Physical Measurements	2	Phys. 3b—Physical Measurements	2
Rhet. 10—Business Writing	2	Econ. 22—Economic History of the United States	3
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
		Electives	0–1
Total	18	Total	17–18

THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution	2
Bus. Law 1a—Commercial Law	3	Bus. Law 2b—Commercial Law	3
Trans. 1—Transportation System of the United States	3	Trans. 12—Freight Rates	2
Prescribed Technical courses, Group A, B, C, or D	2–6	Prescribed Technical Courses, Group A, B, C, or D	3–6
Electives	0–7	Electives	2–8
Total	15–18	Total	15–18

FOURTH YEAR

Bus. Org. and Op. 7—Salesmanship	2	Bus. Org. and Op. 8—Advertising	2
Econ. 12a—Labor Problems, or Electives	3	Econ. 12b—Labor Problems or Econ. 10—Corporation Management and Finance	3
Prescribed Technical Courses, Group A, B, C, or D	3–9	Prescribed Technical Courses, Group A, B, C, or D	2–10
Electives	0–7	Electives	0–11
Total	16–18	Total	17–18

Optional Groups of Technical Courses

GROUP A:

THIRD YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
T. and A. M. 21—Analytical Mechanics	2	M. E. 75—Forge Work	1
		M. E. 77—Foundry Work	2
		M. E. 2—Steam Engineering	3

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
M. E. 61—Power Measurement	2	E. E. 12—Alternating Current Apparatus	3
M. E. 81—Machine Work	3	E. E. 62—Alternating Current Laboratory	1
E. E. 11—Direct Current Apparatus	3		
E. E. 61—Direct Current Laboratory	1		

GROUP B:

THIRD YEAR

FIRST SEMESTER		SECOND SEMESTER	
T. and A. M. 21—Analytical Mechanics	2	M. E. 2—Steam Engineering	3

FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
M. E. 61—Power Measurement	2	E. E. 12—Alternating Current Apparatus.	3
E. E. 11—Direct Current Apparatus	3	E. E. 62—Electrical Engineering Laboratory	1
E. E. 61—Electrical Engineering Laboratory	1	E. E. 90—Lighting	1

GROUP C:

THIRD YEAR

FIRST SEMESTER		SECOND SEMESTER	
Arch. Eng. 43—Working Drawings	2	T. and A. M. 26—Analytical Mechanics and Hydraulics	4
T. and A. M. 25—Resistance of Materials	4	Arch. Eng. 44—Working Drawings	2

FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
Arch. Eng. 45—Graphic Statics	3	C. E. 76—Surveying	2

GROUP D:

THIRD YEAR

FIRST SEMESTER		SECOND SEMESTER	
Chem. 2a—Inorganic Chemistry and Qualitative Analysis	5	Chem. 5a—Elementary Quantitative Analysis	5

FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
Chem. 9c—Organic Synthesis	2	Chem. 6—Chemical Technology	3
Chem. 14a—Organic Chemistry	4	Chem. 31—Elementary Physical Chemistry	4
Chem. 92a—Journal Meeting	1	Chem. 33—Elementary Physical Chemistry	2
		Chem. 92b—Journal Meeting	1

Curriculum in Commerce and Law

(A six-year combined curriculum)

Under the New Requirements for Graduation

The following curriculum is provided for students who wish to combine commercial and legal studies and secure both the degree of Bachelor of Science and the degree of Bachelor of Laws or of Doctor of Law in six years. Students who elect this curriculum must meet all the requirements for graduation from the College of Commerce and Business Administration, but in exercising their privileges of election are urged to select as many hours as possible from the following subjects: Hist. 2a-2b, English History (6); Hist. 3a-3b, United States History (6); Hist. 4a-4b, English Constitutional History (6); Pol. Sci. 1, American Government (3); and Pol. Sci. 3, State and Local Government (3). Students expecting to study law should devote at least 12 hours to work in history and political science. A course in English history is regarded as one of the most essential pre-legal subjects. The law courses in the curriculum may be taken only in the fourth year, and are counted for 30 hours of credit towards the degree, instead of hour for hour, provided the full year's work is completed. In their fourth year students will be regularly registered in the College of Law, but must file copies of their study-lists in the office of the Dean of the College of Commerce and Business Administration at the beginning of each semester.

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Acc'y 1—Principles of Accounting	3	Acc'y 1b—Principles of Accounting	3
Econ. 26—Economic Resources	3	Econ. 22—Economic History of the United States	3
Rhet. 1[2]—Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Phys. Tr. 2—Gymnasium	1
Mil. 1a—Military Drill	½	Mil. 2a—Military Drill	½
Mil. 1b—Military Theory	½	Mil. 2b—Military Theory	½
Electives	4–7	Electives	4–7
Total	15–18	Total	15–18

SECOND YEAR

Acc'y 2—Advanced Accounting and Auditing	3	Acc'y 2b—Advanced Accounting and Auditing	3
Econ. 1—Principles of Economics	5	Econ. 3—Money and Banking	3
Rhet. 10—Business Writing	2	Philos. 1—Logic	3
Mil. 3a—Military Drill	½	Mil. 4a—Military Drill	½
Mil. 3b—Military Theory	½	Mil. 4b—Military Theory	½
Electives	4–7	Electives	5–8
Total	15–18	Total	15–18

THIRD YEAR

Bus. Org. and Op. 1—Business Organization and Operation	3	Bus. Org. and Op. 2—Organization and Control of Mercantile Distribution	2
Econ. 5—Public Finance	3	Econ. 10—Corporation Finance	3
Econ. 28—Domestic Commerce	3	Electives	10–13
Electives	6–9		
Total	15–18	Total	15–18

FOURTH YEAR

Law 1a—Contracts	4	Law 1b—Contracts	3
Law 2a—Torts	3	Law 2b—Torts	3
Law 5—Criminal Law	4	Law 3—Real Property	3
Law 6—Personal Property	2	Law 7—Domestic Relations	2
Law 37—Introduction to Study of Law	1	Law 11—Agency	3
Total	14	Total	14

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

COLLEGE OF ENGINEERING

For a description of the *buildings* used by this College, see page 52, for *collections* belonging to it, see page 63: for *clubs* and *societies auxiliary to its curriculums*, see page 102; for *fees*, see page 110; for *honors*, see page 86: for *honorary societies*, see page 102.

GENERAL STATEMENT

The purpose of the College is to train men for the profession of engineering. In arranging its curriculums, cultural subjects are interwoven with the theoretical subjects of the several departments. The instruction of the class-room and the practise afforded by the library, the drafting room, and the laboratory are correlated. Throughout his course the student works on problems and proceeds by methods similar to those which arise in the experience of the practising engineer.

ADMISSION

See the statement of the entrance requirements of the University, pages 67-83.

SPECIAL STUDENTS

See the statement of the regulations of the University in regard to special students, page 74.

DESCRIPTION OF DEPARTMENTS

The College of Engineering comprises the following departments:

- DEPARTMENT OF ARCHITECTURE, with curriculums in—
  - Architecture
  - Architectural Engineering
- DEPARTMENT OF CERAMIC ENGINEERING
- DEPARTMENT OF CIVIL ENGINEERING
- DEPARTMENT OF ELECTRICAL ENGINEERING
- DEPARTMENT OF MECHANICAL ENGINEERING
- DEPARTMENT OF MINING ENGINEERING
- DEPARTMENT OF MUNICIPAL AND SANITARY ENGINEERING
- DEPARTMENT OF PHYSICS
- DEPARTMENT OF RAILWAY ENGINEERING,[1] with curriculums in—
  - Railway Civil Engineering
  - Railway Electrical Engineering
  - Railway Mechanical Engineering

ARCHITECTURE

The department of architecture offers two curriculums leading to the first degree, the curriculum in architecture and the curriculum in architectural engineering. The aim of these curriculums is to give preparation for the practise of architecture.

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[1] The School of Railway Engineering and Administration (page 192) offers, in addition to the three curriculums named here, curriculums in railway transportation and railway administration under the direction of the College of Commerce and Business Administration. See pages 134-136 above.

The curriculum in architecture aims primarily to train the student to produce correct, thoughtful, and beautiful works of architecture. The schedule includes liberal and scientific subjects to supply the background for creative work and to give a knowledge of the principles involved in the processes of safe and economical construction; also freehand drawing for the purpose of training the eye to recognize correct proportion and training the hand to skillful and rapid drawing. The curriculum, however, consists mainly of the study of architectural forms and principles and their application in architectural design. From time to time the problems of the Society of Beaux Arts of Architects are given and the student drawings sent to New York for judgment.

The curriculm in architectural engineering gives a groundwork in mathematics and applied mechanics, and includes such studies as strength of materials, bridge, mill, and tall building construction, reinforced concrete, etc. The principles of these subjects are applied to all forms of building construction in a course given in the senior year, known as architectural engineering. While specializing in construction, this curriculum includes also the study of the forms and principles of architecture through such subjects as free-hand drawing, architectural history, architectural drawing, and architectural design.

Both curriculums in architecture prepare the student for the examinations of the Illinois State Board of Examiners of Architects, and graduates are exempt from examinations required for entrance into the American Institute of Architects, and from the preliminary examination for the prize in Architecture of the American Academy at Rome. The Plym Fellowship in Architecture is awarded annually to a graduate of the department. This prize, which is awarded by competition, amounts to $1,000 and provides for one year of travel abroad for the study of architecture.

The American Institute of Architects offers annually a medal to be awarded to the graduate of the department whose work throughout the four years has been adjudged the best. In making the award the scholarship in all work for the entire curriculum is considered.

The Scarab Medal in Architecture is awarded annually to a student of the department. This prize is a bronze medal which is awarded by competition.

Students intending to take up the study of architecture should take free-hand and mechanical drawing and general history in high school.

Equipment

The equipment of the department includes plaster casts of architectural detail and ornament; lantern slides of architectural subjects and of painting and sculpture; classified plates, photographs, and stereoscopic views; a working library of over 4,000 volumes on architecture and the allied arts; a collection of 300 examples of American woods, shown in three sections each; and collections of architectural drawings and of specimens of building materials, fittings, and appliances.

A Balopticon is used for direct projection of photographs and colored plates, and a double electric lantern for projecting two pictures on the screen at once for comparative study. Geometrical and architectural models are lighted by a light properly adjusted for demonstration of the subjects of shades and shadows and conventional rendering. Wall space in the corridors of the department and in all drafting rooms has been prepared for exhibition purposes, and collections of drawings are constantly displayed. The department occupies the fourth floor of Engineering Hall, and part of the third; its quarters include drafting rooms for undergraduate and graduate work, lecture rooms, studios for free-hand drawing, and the Ricker Library of Architecture.

CERAMIC ENGINEERING

This department offers courses of instruction relating to the fabrication of clay products, cement and glass, and enamels for metals.

In addition to the fundamental engineering courses, work is offered in the physical and chemical principles of the production of silicate products, the winning and preparation of raw materials, their shaping, drying, and burning, or fusion, the compositions and application of the various glazes, glasses, enamels, and colors, the planning and construction of industrial plants, and of the various machines, apparatus, kilns, and furnaces used in these plants.

Industrial cooperation and research are prosecuted, and a series of bulletins on ceramic subjects is being published.

Equipment

The department of ceramic engineering is housed in a three-story brick building providing facilities in the way of lecture rooms, class rooms, and laboratories.

The ceramic laboratories contain apparatus for the testing of clays and the preparation of cements, enamels, and glasses; machinery for grinding the raw materials, for shaping bricks, tiles, saggers, pottery and refractories; kilns and furnaces for calcining and fusing; pyrometers, potentiometers, electric furnaces, recording instruments, and all other accessories for exact scientific and technical work.

A library pertaining to the silicate industries is available; also sets of working drawings representing the construction of important plants.

CIVIL ENGINEERING

The purpose of the department is to make possible a systematic study of the principles of engineering and to give the students an opportunity for practise in the survey, design, and construction of public and other engineering works. The prime object is to bring about the development of the mental faculties of the student, particularly his initiative, and to help him obtain a good grasp of the needs and opportunities afforded by engineering in general.

Equipment

For the surveying courses there is a full equipment of engineers' transits, levels, plane-tables, and other instruments in use not only in ordinary and in railroad surveying, but also in more precise work.

In a building set apart for the purpose is a well equipped highway laboratory containing machines for testing bituminous and non-bituminous road materials, including brick, stone, and other road-making substances. The cement laboratory occupies a room in this building. It is provided with facilities for testing hydraulic cement, sand, and other aggregates used in concrete.

ELECTRICAL ENGINEERING

This department provides a curriculum in the theory and application of electricity. The first two years of work are substantially the same as in the other engineering curriculums, including work in drafting room and shop, and instruction in the principles of mathematics and physics. In the third year a course in dynamo machinery is followed by the theory of alternating currents, while laboratory and design courses emphasize principles. Technical courses cover the generation, transmission, and distribution of electric power, and its various applications. In the laboratory a study of dynamos is followed in the fourth year by experiments in the operation of electrical machinery. Investigation of problems of power distribution is made in advanced laboratory and thesis work.

Equipment

The 500-kilowatt power plant of the University supplies the electrical engineering laboratory with current for its operation.

The power equipment in the electrical engineering laboratory includes eighty-seven direct current machines with a total capacity of 450 kilowatts, thirty-seven alternating current machines with a total capacity of 380 kilowatts, and sixty-three transformers with a total capacity of 380 kilowatts. A 17-panel experimental switchboard affords distribution and control.

The instrument room contains standards for the calibration of commercial instruments of all types, two hundred and fifty portable instruments for experimental work, and a 240 ampere-hour storage battery. The graduate laboratory contains apparatus for research, including four oscillographs, one 2,000-cycle alternator, one 200,000-volt transformer, one 1,000-ampere direct current generator, and apparatus for high voltage direct current investigations. The photometer room contains apparatus for tests of the various light sources. Two special 100-line switchboards are connected with cables and apparatus for experiment in telephony. The equipment for electrometallurgical work includes one 30-kilowatt induction furnace, one 25-kilowatt arc furnace, two 30-kilowatt resistance furnaces, one 15-kilowatt vacuum furnace for melting, one 3-kilowatt vacuum furnace for annealing, and one 1.5-kilowatt muffle furnace.

MECHANICAL ENGINEERING

The courses in mechanical engineering are planned to present the theory and practise of the generation and transmission of power, and of the design, construction, operation, and testing of machinery of all kinds. In the laboratories emphasis is given to the engineering and economic principles of machine construction and to the problems of scientific shop management.

Equipment

The Designing Rooms are supplied with drawing tables, and with reference books, files of trade catalogs, gear charts, and collections of blue-prints. A collection of kinematic models, sectional steam specialities, lantern slides, and photographs is also available.

The Mechanical Engineering Laboratory is equipped with machines and testing instruments for instruction in steam engineering, gas power engineering, refrigeration, heating, and ventilation, including a 210-horsepower experimental boiler, equipped with chain-grate stoker, fuel economizer, and induced draft; a separately fired steam superheater; types of throttling, high speed automatic, and Corliss steam engines; steam condensers; a compound two-stage air compressor; a large compound duplex steam pump; a Kerr steam turbine; a DeLaval turbo-pump; a 200,000-pound Lea water-flow; a 10-ton ammonia compression refrigerating machine; typical gas, gasoline, and oil engines; a 50-horsepower suction gas producer, house-heating boilers and furnaces; a 150-horsepower electric absorption and transmission dynamometer, and apparatus for instruction in heating and ventilation and the mechanical equipment of buildings. The central heating and power plant contains types of boilers, stokers, pumps, and engines in commercial service.

The Shop Laboratories are provided with machinery and apparatus to illustrate the process of the manufacture of machinery. The laboratories include the *Wood Shop* with an equipment of benches, lathes, machinery, and small tools needed in pattern construction; the *Foundry* equipped with cupola, brass furnaces, core ovens, molding machines, and facilities for bench and floor molding; the *Forge Shop* equipped with forges, anvils and small tools, a steam hammer, a power-driven punch and shear, and with gas and electric furnaces; and the *Machine Shop* with an equipment of lathes, planers, shapers, milling machines, grinders, boring mills, drill presses, and with typical small tools and fixtures used in manufacturing.

MECHANICS, THEORETICAL AND APPLIED

The courses in theoretical and applied mechanics are designed to meet the needs of students of engineering.

The *Laboratory of Applied Mechanics* comprises the materials testing laboratory and the hydraulics laboratory. The equipment of the *materials testing laboratory* includes testing machines and apparatus for making physical tests of materials of construction. such as tension, compression, flexure, shearing, torsion, hardness, and impact tests, and tests under repeated load. The laboratory contains machines of capacity for testing full size structural and machine members. Among these is a universal machine of six hundred thousand pounds capacity. Facilities are provided for making, curing, and testing concrete and reinforced concrete test specimens. The *Hydraulics laboratory* has facilities for furnishing water under a range of pressures and volumes. There is an equipment of devices for measuring and recording the flow of water, including measuring pits, water meters, weir channels, nozzles, pitometer, and Venturi meters. In the equipment are pumps, a standpipe, water motors, and a turbine water wheel for testing purposes. A supply of pressure gauges, weighing scales, and other auxiliary apparatus is provided.

MINING ENGINEERING

The department of mining engineering offers courses of instruction in mining and metallurgical engineering to train men for the various phases of the mineral industry.

The work of the department adds to the preliminary courses in mathematics, languages, chemistry, physics, geology, and general engineering, that are common to all courses in engineering, specialized work in mine surveying, mining methods, geology, prospecting, mine examination and valuation, ventilation, mining machinery, coal washing and ore concentration, metallurgy, utilization of fuels, administration and organization of mines, mining law, and the design of mining and metallurgical structures.

In addition to its work of instruction, the department concerns itself with the development and dissemination of scientific facts of service in improving the practise of mining, with reference to efficiency in operation, the security of life in the mines, and the conservation of the mineral resources of the State.

Equipment

The drawing rooms contain the catalogs of the manufacturers of mining machinery with a complete card index, the standard reference books on mine and mill design, and an unusually complete collection of photographs, blue-prints and drawings of mines, mine structures, and ore and coal preparation, and metallurgical plants.

The mine-gas and safety-lamp laboratory contains safety lamps of different types, electric and magnetic locking appliances, a photometer, a dark room for photometric work, Ryan Oldham, and Hailwood safety-lamp testing apparatus, appliances for gas and dust analysis and explosibility tests, and a Bacharach hydro volume and pressure recorder.

The coal washing and ore dressing laboratory contains for crushing, rolls, gyratory and jaw crushers, and a 500-pound 3-stamp battery; for screening and sizing, trommels, shaking and vibrating screens, and classifiers; for concentrating and cleaning, pan, piston and pulsating jigs, bumping table, vanner, sand, concentrating table, and slimer. These machines can handle from 3 to 5 tons of coal and one ton of ore an hour. There are also a complete sampling and drying equipment, a cyanide testing plant, a Huff electrostatic machine, flotation units, a magnetic separator and other appliances used for preliminary testing. Adjoining this laboratory is a chemical and assay laboratory equipped for the analytical work required in connection with coal washing and ore concentration.

The explosives and drilling laboratory contains types of rock and coal drills, an air meter, a diamond drill, chain and puncher, coal cutters, and a complete outfit for demonstrating the use of explosives.

MINE INVESTIGATION STATION AND LABORATORIES

Cooperating with the department of mining engineering and with the State Geological Survey, the Federal Government in 1909 established at the University a mine rescue station in charge of a resident mining engineer. The purpose of the station was to interest all connected with the mining industry in modern appliances and breathing and resuscitation apparatus as part of the normal equipment of mines. At the station mine bosses and others were trained in the use of such apparatus, this service being rendered freely to all who desired the benefits thereof.

A direct outcome of the cooperative rescue station has been the establishment of a comprehensive mine rescue service by the State of Illinois. This state service has rendered unnecessary the maintenance of the cooperative rescue station in Urbana. The station is now maintained by the University for the training of students, but the United States Bureau of Mines keeps certain apparatus on exhibition.

The Cooperative Investigation of Illinois mining conditions is another outgrowth of the mine rescue station. This cooperation between the University of Illinois, the Illinois State Geological Survey, and the United States Bureau of Mines has for the past six years carried on an investigation of the coal resources and the mining practise in the state.

A laboratory is maintained for the study of mine dusts and mine gases which is also available for the use of mining classes in the University. The Bureau of Mines has stationed in Urbana three resident mining engineers and a chemist.

MUNICIPAL AND SANITARY ENGINEERING

This curriculum is designed to train students for the duties of the engineer employed on the design, construction, and operation of public works and public utilities, and for general engineering work.

The methods of training are intended to develop power to take up and solve new problems connected with municipal public works, as well as to design and to superintend the ordinary constructions. Surveying, structural materials, and structural design are taught as in the civil engineering curriculum. Chemistry and bacteriology of water supply and sewage disposal are given; and instruction in mechanical and electrical engineering in the generation and transmission of power.

PHYSICS

The department of physics occupies the Laboratory of Physics. This building supplies facilities and equipment for instruction and investigation in physics. Gas, distilled water, compressed air and vacuum, and direct and alternating electric currents are available in all parts of the building. There is a collection of over 4,000 pieces of apparatus, and only a small part of the equipment is antiquated. New investigations can usually be started with the apparatus on hand. There are two workshops, one for advanced students and instructors, and one for the mechanicians of the department. The students' shop is equipped with lathes, drill press, and bench tools. The mechanicians' shop contains lathes, milling machines, drill press, and other facilities for fine machine work.

The University library contains sets of journals of physics and the related sciences in English, French, and German. The recent volumes of the physical journals, together with a collection of text-books, encyclopedias, dictionaries, and other reference books, are in the special library of the Laboratory.

RAILWAY ENGINEERING[1]

The department of railway engineering is organized to train students for service in the technical departments of railways. It offers curriculums in railway civil engineering, railway electrical engineering, and railway mechanical engineering, all three of which are substantially the same as the corresponding civil, electrical, and mechanical engineering curriculums to the middle of the third year, after which is given in each course a group of subjects relating to the technical problems of steam or electric railways. The curriculums in railway civil and railway mechanical engineering are designed for those who wish to enter steam railway service in the engineering and motive power departments respectively, while the curriculum in railway electrical engineering is intended for those who will serve on electric railways or in the electrical departments of steam roads. The special subjects of the curriculum in railway civil engineering concern the location, design, construction, and maintenance of railway track and equipment, and the design of railway structures. The courses in railway electrical engineering deal with the design and construction of electrical railway equipment, the operation and performance of electric cars and locomotives, and with the problems which arise in the electrification of steam lines. The curriculum in railway mechanical engineering adds to the fundamentals of the general mechanical engineering curriculum special railway courses on the design of locomotives and cars, the resistance of trains, the performance and tests of locomotives, and tests of railway equipment.

Equipment

A locomotive testing plant, built from the original designs of the department, occupies a building forty by one hundred fifteen feet. The plant is devoted exclusively to making tests to determine the performance of locomotives. The locomotives tested are furnished by certain western railroad systems under an arrangement which insures the maintenance in the plant of a locomotive of latest design.

For purposes of instruction a light freight locomotive is permanently available in this laboratory. This locomotive, donated to the department by the Illinois Central Railroad, is of the mogul type, has 19x26 simple cylinders using saturated steam, 1,530 square feet of heating surface, 26 square feet of grate area, and weighs with its tender 206,000 pounds.

The department owns and operates, jointly with the Illinois Central Railroad, a railway test car designed for experimental work on steam roads. It is equipped for making train resistance and locomotive performance tests, and during the last fifteen years has been in frequent operation in carrying on resistance and tonnage rating tests on the Illinois Central Railroad and on several eastern roads.

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[1] See also School of Railway Engineering and Administration, page 192.

For work on electric roads the department owns also an electric test car, of the interurban type, designed and built for the University. It is equipped with four 50-horsepower direct current motors and with the Westinghouse multiple control system, and is provided with instruments for recording power, speed, acceleration, and the other data needed in road tests, and for measuring and recording the electric resistance of rail bonds. Through the courtesy of the Illinois Traction System this car is operated on its lines, which enter the campus of the University.

The department laboratory equipment includes a drop-testing machine and a brake-shoe testing machine, both constructed in accordance with the standards of the Master Car Builders Association. The drop-testing machine is designed for use in testing the strength of railroad rails, car axles, car couplers, and draft gears; and may be used in studies of the physical properties of structural materials of any sort. The brake-shoe testing machine supplies means for determining the wearing properties and frictional qualities of brake-shoes, such as are employed in regular service on railroad trains.

Much of the work in the railway courses is given in the departments of civil, electrical, and mechanical engineering, and the shop and laboratory equipment of these departments is available for students of the railway department.

Three steam roads—the Illinois Central, the Cleveland, Cincinnati, Chicago & St. Louis, and the Wabash railroads—and two electric interurban roads—the Illinois Traction System and the Kankakee and Urbana railway—enter Champaign and Urbana. The department is afforded by them opportunities for practical road tests and field work.

NON-TECHNICAL ELECTIVES

The non-technical electives for students in the College of Engineering are subject to the following restrictions:

1. They are restricted to courses offered in the College of Liberal Arts and Sciences and in the College of Commerce.
2. Such courses must not be open to freshman students.
3. The courses must be approved by the head of the department in which the student making the election is registered.
4. Students in the College of Engineering electing the third and fourth years' work in the Reserve Officers' Training Corps may substitute the four hours' credit thus received for three hours of the required non-technical electives.

SUMMER READING

All engineering students not graduates of a literary college are required to complete prescribed courses of reading of a non-professional character during the summer vacations following the freshman and sophomore years. The purpose of the summer reading is to increase the acquaintance of the student with literature. history, and general science, to develop in him a taste for such reading, and to impress him with the importance of such knowledge not only as a source of individual enjoyment, but as an aid in social and business relations.

A circular on summer reading is issued, containing a list of books from which the student may choose. The books have been selected for their value in general training, but an attempt has been made to include only readable and attractive works. A statement of the books read during the summer is required at the beginning of the next college year.

GENERAL ENGINEERING LECTURES FOR FRESHMEN

One general lecture, sufficiently popular in character to interest and inspire young students, will be given each week. All freshman engineering students are required to attend this lecture.

TRIPS OF INSPECTION

Students in the College of Engineering are required to make a trip of inspection during their senior year. Such trips supply an opportunity to inspect the work of industrial establishments and of engineering enterprises. They usually occupy from three to four days, and are taken during term time, under the supervision of University authorities. They involve an expense from $15 to $25 to each student. For the year 1918-19, the trips will occur on November 4-6, 1918.

No student not in line for graduation shall be permitted to go on the annual inspection trip of the College of Engineering without the approval of the General Committee on Inspection Trips.

CURRICULUMS AND DEGREES

The curriculums leading to the degree of Bachelor of Science in the College of Engineering, as scheduled for the year 1917-1918, are given herewith in full. Each of the eleven curriculums given may ordinarily be completed in a period of four years.

A graduate of the University of Illinois in architectural, ceramic, civil, electrical, mechanical, mining, municipal and sanitary, or railway engineering may receive the degree of an allied curriculum on the completion of from thirty to thirty-six semester hours work approved by the faculty. This work may ordinarily be done in one academic year.

A graduate of the College of Liberal Arts and Sciences of the University of Illinois, or of any college of equal standing, whose mathematical training includes the calculus, who has had an acceptable course in physics, and sufficient training in mechanics to enable him to begin the mechanics of the junior year, may receive the degree of Bachelor of Science in Engineering on the completion of sixty-eight credit hours of work in engineering under the direction of the faculty. This work may ordinarily be done in two academic years. Candidates for the degree in the department of architecture are not required to be prepared in calculus or mechanics, but should have special preparation in drawing.

RHETORIC PREREQUISITE FOR JUNIOR STANDING

The following requirements in rhetoric apply to students in the College of Engineering:

1. Rhetoric 1 and 2 shall hereafter be a prerequisite for junior standing in the College of Engineering, and no student in this College shall be permitted to register in more than eight hours of prescribed junior work without having passed or being registered in Rhetoric 1 or 2.

2. Any student in this College whose written work shows that he is unable to use good English shall be reported by his instructor to a standing committee of the College, which committee shall have authority to direct the student to take as a prerequisite for graduation such additional work in rhetoric as may be prescribed by the department of English.

CURRICULUMS IN ENGINEERING

The several engineering curriculums are in process of transition between a former schedule followed by the classes entering prior to the year 1914-15, and a new schedule, effective for the freshman class of that year and subsequent classes.

The outlines which follow show the work of each year in the several curriculums *as taught during 1917-18. They do not show either the old or the new curriculums as a whole.* The "First Year" as here scheduled is for freshmen; and the "Second Year," "Third Year," and "Fourth Year," respectively, for regular sophomores, juniors, and seniors: but these schedules *must not be used* for checking up on a student's previous work in his course or in planning the work of subsequent years. For such check or planning consult with the Assistant Dean of the College.

As a result of war-time conditions, minor changes in some of the curriculums have been necessary during the year 1917-18.

Curriculum in Architecture

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Arch. 31—Arch. and Freehand Drawing..	4	Arch. 32—Arch. and Freehand Drawing..	4
G. E. D. 2—Descriptive Geometry......	4	Chem. 1a or 1b—Inorganic Chemistry.	3 or 4
Math. 2—Advanced Algebra............	3	T. and A. M. 14—Elem. Mechanics......	4
Math. 4—Trigonometry................	2	Rhet. 2—Rhetoric and Themes..........	3
Rhet. 1[2]—Rhetoric and Themes.........	3	Phys. Tr. 2—Gymnasium..............	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene............................	1	Mil. 2a—Military Drill................	½
Mil. 1a—Military Drill................	½	Mil. 2b—Military Theory..............	½
Mil. 1b—Military Theory..............	½	Engineering Lecture..................	0
Engineering Lecture..................	0		
Total...........................	18	Total........................	16 or 17

Summer Reading, 50 points

SECOND YEAR

Arch. 13—History of Architecture.......	2	Arch. 14—History of Architecture.......	2
Arch. 23—Freehand Drawing...........	2	Arch. 24—Freehand Drawing...........	2
Arch. 33—Design......................	3	Arch. 34—Design......................	3
Arch. 43—Working Drawings...........	3	Arch. 44—Working Drawings...........	3
Phys. 9a—Physics Lectures.............	2	Phys. 9b—Physics Lectures.............	2
Phys. 10a—Physics Laboratory.........	2	Phys. 10b—Physics Laboratory.........	2
T. and A. M. 15—Strength of Materials..	3	T. and A. M. 16—Strength of Materials..	3
Mil. 3a—Military Drill.................	½	Mil. 4a—Military Drill.................	½
Mil. 3b—Military Theory..............	½	Mil. 4b—Military Theory..............	½
Total...........................	18	Total...........................	18

Summer Reading, 50 points

THIRD YEAR

Arch. 15—History of Architecture.......	2	Arch. 16—History of Architecture.......	2
Arch. 25—Freehand Drawing...........	2	Arch. 26—Freehand Drawing...........	2
Arch. 35—Design......................	5	Arch. 36—Design......................	5
Arch. 45—Graphic Statics..............	3	Arch. 46—Roofs........................	3
Arch. 65—Theory of Architecture.......	1	Arch. 55—Building Sanitation..........	1
E. E. 90—Building Illumination.........	1	Arch. 66—Theory of Architecture.......	1
French or German.....................	4	French or German.....................	4
Total...........................	18	Total...........................	18

FOURTH YEAR

Arch. 27—Freehand Drawing...........	2	Arch. 28—Freehand Drawing...........	2
Arch. 37—Design......................	7	Arch. 38—Advanced Design or Thesis....	7
Arch. 68—Specifications...............	3	Arch. 60—Special Lectures.............	1
Arch. 99—Inspection Trip..............	0	Arch. 67—Theory of Form and Color....	2
M. E. 25—Heating and Ventilation......	2	Non-technical Elective[3]................	5
Non-technical Elective[3]...............	3		
Total...........................	17	Total...........................	17

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

[3] Any approved non-technical course. See page 148.

Curriculum in Architectural Engineering

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Desc. Geometry	4
Math. 2—Advanced Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[2]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	17 or 18	Total	18

Summer Reading, 50 points

SECOND YEAR

Arch. 13—History of Architecture	2	Arch. 14—History of Architecture	2
A. E. 33—Arch. and Freehand Drawing	3	A. E. 34—Design	3
A. E. 43—Working Drawings	2	A. E. 44—Working Drawings	2
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lectures	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	18	Total	18

Summer Reading, 50 points

THIRD YEAR

Arch. 15—History of Architecture	2	Arch. 16—History of Architecture	2
A. E. 35—Design	3	A. E. 36—Design	3
A. E. 45—Graphic Statics	3	A. E. 46—Graphic Statics	3
Language	4	Language	4
T. and A. M. 25—Resistance of Materials	4	T. and A. M. 26—Analytical Mechanics and Hydraulics	4
Non-technical Elective[3]	2	Non-technical Elective[3]	2
Total	17 or 18	Total	18

FOURTH YEAR

A. E. 47—Architectural Engineering	5	A. E. 48—Architectural Engineering	5
A. E. 57—Fireproof Construction	2	A. E. 58—Fireproof Construction	2
A. E. 99—Inspection Trip	0	A. E. 67—Building Sanitation	2
E. E. 92—Lighting and Wiring	2	A. E. 68—Estimates and Specifications	4
M. E. 23—Mech. Equipment of Buildings	5	Non-technical Elective[3]	3
Non-technical Elective[3]	3		
Total	17	Total	16

Curriculum in Ceramic Engineering

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—College Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[2]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	17 or 18	Total	18

Summer Reading, 50 points

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[1] Semester hours. For definition, see page 243.

[2] Students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

[3] Any approved non-technical course. See page 148.

SECOND YEAR

Chem. 5a—Quantitative Analysis	5	Chem. 5b—Quantitative Analysis	5
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lecture	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
Non-Technical Elective[1]	3	Mil. 4b—Military Theory	½
		Non-Technical Elective[1]	3
Total	19	Total	19

Summer Reading, 50 points

THIRD YEAR

Cer. 1—Ceramic Materials	3	Cer. 3—Industrial Calculations	3
Cer. 2—Winning and Preparation of Clays	3	Cer. 5—Ceramic Bodies	5
Chem. 65—Gas and Fuel Analysis	2	Cer. 12—Manufacturing Processes	3
French or German	4	C. E. 76—Surveying	2
T. and A. M. 21—Analytical Mechanics	2	French or German	4
T. and A. M. 25—Resistance of Materials	4		
Total	18	Total	17

FOURTH YEAR

FIRST SEMESTER		SECOND SEMESTER	
Cer. 4—Drying and Burning	4	Cer. 9—Ceramic Construction	4
Cer. 6—Glazes	6	M. E. 62—M. E. Laboratory	3
Cer. 17—Physical Chemistry	4	Non-Technical Elective	3
Cer. 99—Inspection Trip	0	Thesis or (with the approval of the Department) Technical Elective	3 or 5
Technical Elective	3	Technical Elective	2 or 0
Total	17	Total	15

FOURTH YEAR FOR CLASS OF 1918

Cer. 4—Drying and Burning	4	Cer. 9—Ceramic Construction	4
Cer. 6—Glazes	6	Geol. 13b—Engineering Geology	3
Cer. 17—Physical Chemistry	4	M. E. 62—M. E. Laboratory	3
Cer. 99—Inspection Trip	0	Technical Elective	3
Geol. 13a—Engineering Geology	3	Thesis or Technical Elective	3
Total	17	Total	16

Curriculum in Civil Engineering

FIRST YEAR

FIRST SEMESTER	Hours[2]	SECOND SEMESTER	Hours[2]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Inorganic Chemistry	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[3]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	18	Total	18

Summer Reading, 50 points

SECOND YEAR

C. E. 27—Plain Surveying	3	C. E. 28—Higher Surveying	3
Language	4	Language	4
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
Phys. 1a—Physics Lecture	3	Phys. 1b—Physics Lecture	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	18	Total	18

Summer Reading, 50 points

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[1] Any approved non-technical course. See page 148.

[2] Semester hours. For definition, see page 243.

[3] Students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

THIRD YEAR

C. E. 51—Railroad Surveying	5	C. E. 52—Roads and Pavements	3
M. E. 1—Steam Engines and Boilers or	3	C. E. 60—Structural Stresses	4
C. E. 57—Stream Flow	3	C. E. 62—Structural Details	2
T. and A. M. 21—Analytical Mechanics	2	C. E. 70—Seminar	1
T. and A. M. 29—Resistance of Materials	5	T. and A. M. 10—Hydraulics	3
Non-technical Elective[1]	3	Non-technical Elective[1]	3
Total	18	Total	16

FOURTH YEAR

C. E. 79—Cement Laboratory	1	C. E. 80—Contracts and Specifications	2
C. E. 81—Theory of Reinforced Concrete	2	C. E. 82—Concrete Design	4
C. E. 85—Steel Bridge Design	5	Non-technical Elective[1]	3
C. E. 99—Inspection Trip	0	Technical Elective	7
M. and S. E. 2—Water Supply Engineering	4		
Technical Electives	5		
Total	17	Total	16

TECHNICAL ELECTIVES[2]—FOURTH YEAR

1917-18

FIRST SEMESTER	Hours[3]	SECOND SEMESTER	Hours[3]
C. E. 37—Map Reading and Military Sketching	2	C. E. 84—Engineering Functions	2
C. E. 57—Stream Flow	2	C. E. 86—Public Service Engineering	3
C. E. 59—Drainage Engineering	2	C. E. 90—Hydro-Economics	2
C. E. 77—Masonry Construction	4	C. E. 94—Highway Administration	3
C. E. 87—Advanced Bridge Analysis	2	C. E. 96—Road Materials Laboratory	2
C. E. 89—Hydro-Economics	2	C. E. 98—Thesis	2
C. E. 93—Road Construction	3	Chem. 73—Asphalts, Tars, etc	2
C. E. 97—Thesis[4]	1	E. E. 4—Electrical Engineering	2
Min. 1—Earth and Rock Excavation	3	E. E. 64—Electrical Engineering Lab	1
		M. and S. E. 3—Sewerage	3
		M. and S. E. 9—Hydraulic Design and Construction	2
		R. E. 33—Economics of Railway Location	4

Curriculum in Electrical Engineering

FIRST YEAR

FIRST SEMESTER	Hours[3]	SECOND SEMESTER	Hours[3]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[5]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	17 or 18	Total	18

Summer Reading, 50 points

SECOND YEAR

Language	4	Language	4
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
M. E. 75 and 77—Forge and Foundry, or M. E. 79—Pattern Work	3	M. E. 75 and 77—Forge and Foundry, or M. E. 79—Pattern Work	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lectures	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	18	Total	18

Summer Reading, 50 points

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[1] Any approved non-technical course. See page 148.

[2] Students desiring to specialize in Structural Engineering should elect C. E. 77 and 87. Students desiring to specialize in Highway Engineering should elect C. E. 93, 94, 96 and Chem. 73.

[3] Semester hours. For definition, see page 243.

[4] Only students having high grades may elect a thesis.

[5] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

THIRD YEAR

E. E. 25—Direct Current Apparatus	4	E. E. 26—Alternating Currents	4
E. E. 75—Elec. Eng. Laboratory	2	E. E. 76—Elec. Eng. Laboratory	2
Math. 9a—Integral Calculus	2	M. E. 2—Steam Engineering	3
M. E. 81—Machine Work	3	Phys. 4b—Elec. and Mag. Measurement	2
Phys. 4a—Elec. and Mag. Measurement	2	T. and A. M. 26—Anal. Mechanics and Hydraulics	4
T. and A. M. 25—Resistance of Materials	4	Non-technical Elective[1]	3
Total	17	Total	18

FOURTH YEAR FOR THE CLASS OF 1918

E. E. 99—Inspection Trip	0	E. E. 96—Seminar	1
E. E. 95—Seminar	1	E. E. 36—Alternating Current Apparatus	4
E. E. 35—Alternating Current Apparatus	4	E. E. 86—Elec. Eng. Laboratory	2
E. E. 85—Elec. Eng. Laboratory	2	E. E. 56—Electrical Design	4
E. E. 55—Electrical Design	2	E. E. 98—Thesis[2] or Elective	3
M. E. 61—Power Measurement	2	Non-technical Elective[1]	3
M. E. 11—Thermodynamics	3		
Non-technical Elective[1]	3		
Total	17	Total	17

Curriculum in Mechanical Engineering

FIRST YEAR

FIRST SEMESTER	Hours[3]	SECOND SEMESTER	Hours[3]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[4]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	17 or 18	Total	18

Summer Reading, 50 points

SECOND YEAR

Language	4	Language	4
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
M. E. 75 and 77—Forge and Foundry, or M. E. 79—Pattern Work	3	M. E. 75 and 77—Forge and Foundry, or M. E. 79—Pattern Work	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lectures	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	18	Total	18

Summer Reading, 50 points

THIRD YEAR

Math. 9a—Integral Calculus	2	M. E. 12—Thermodynamics	5
M. E. 3—Steam Engineering	3	M. E. 30—Mechanics of Machinery	5
M. E. 81—Machine Work	3	M. E. 64—Power Measurement	3
T. and A. M. 21—Analytical Mechanics	2	M. E. 82—Machine Work	2
T. and A. M. 29—Resistance of Materials	5	Non-technical Elective[1]	3
Non-technical Elective[1]	3		
Total	18	Total	18

FOURTH YEAR

E. E. 11—Direct Current Apparatus	3	E. E. 12—Alternating Current Apparatus	3
E. E. 61—Direct Current Laboratory	1	E. E. 62—Alternating Current Laboratory	1
M. E. 15—Gas Power Engineering, or M. E. 37—Principles of Management	3	M. E. 26—Heating and Ventilation	3
M. E. 43—Engineering Design	5	M. E. 32—Power Transmission	3
M. E. 65—Power Laboratory	3	M. E. 44—Engineering Design, or M. E. 66—Power Laboratory	2
M. E. 99—Inspection Trip	0	M. E. 52—Power Plant Design	3
Non-technical Elective[1]	3		
Total	18	Total	15

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[1] Any approved non-technical course. See page 148.

[2] Only students having high grades may elect a thesis.

[3] Semester hours. For definition, see page 243.

[4] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

Curriculum in Mining Engineering

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—College Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[2]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	17 or 18	Total	18

Summer Reading, 50 points

SECOND YEAR

Geol. 13a—Engineering Geology	3	Geol. 13b—Engineering Geology	3
Language	4	Language	4
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lectures	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	18	Total	18

Summer Reading, 50 points

THIRD YEAR

Chem. 5a—Quantitative Analysis	5	C. E. 58—Graphic Statics	2
C. E. 35—Surveying	3	E. E. 4—Elementary Electrical Eng.	2
M. E. 1—Steam Engineering	3	E. E. 64—Electrical Engineering Lab.	1
Min. 1[3]—Earth and Rock Excavation	3	Min. 4[3]—Mining Methods	3
T. and A. M. 25—Resistance of Materials	4	Min. 6[3]—Mechanical Engineering of Mines	2
		T. and A. M. 26—Analytical Mechanics and Hydraulics	4
		Non-technical Elective[4]	3
Total	18	Total	17

FOURTH YEAR FOR THE CLASS OF 1918

I. Coal Mining Option

Chem. 7—Metallurgy	3	Min. 8—Mine Law, Admin. and Accounts	3
Chem. 65—Technical Gas and Fuel Analysis	2	Min. 13—Utilization of Fuels	2
Min. 5—Mine Ventilation	3	Min. 42—Coal Plant Design	2
Min. 9—Coal and Ore Preparation	3	Min. 62—Mine Surveying	3
Min. 41—Principles of Coal Plant Design	3	Min. 64—Coal Mining Laboratory	3
Min. 99—Inspection Trip	0	Min. 68—Mine Topography	1
Non-technical Elective[4]	3	Min. 90—Mining and Metallurgical Reports	1
		Non-technical Elective[4]	3
Total	17	Total	18

II. Ore Mining Option

Chem. 7—Metallurgy	3	Geol. 2—Economic Geology	3
Chem. 69—Metallurgical Laboratory and Assaying	2	Min. 8—Mine Law, Administration and Accounts	3
Min. 15—Principles of Mine Ventilation	1	Min. 44—Ore Plant Design	2
Min. 19—Ore and Coal Preparation	3	Min. 62—Mine Surveying	3
Min. 21—Mine Examination and Valuation	2	Min. 66—Ore Concentration Laboratory	3
Min. 43—Principles of Ore Plant Design	3	Min. 90—Mining and Metallurgical Reports	1
Min. 99—Inspection Trip	0	Non-technical Elective[4]	3
Non-technical Elective[4]	3		
Total	17	Total	18

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[1] Semester hours. For definition, see page 243.

[2] Students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

[3] Students in Metallurgical Option take *First Semester:* Chemistry 7—General Metallurgy, instead of Mining 1; *Second Semester:* Chemistry 5a—Advanced Quantitative Analysis instead of Mining 4 and Mining 6.

[4] Any approved non-technical course. See page 148.

III. Metallurgical Option

Chem. 65—Technical Gas and Fuel Analysis	2	Chem. 78—Metallography	2
Chem. 69—Metallurgical Laboratory and Assaying	2	Geol. 2—Economic Geology	3
Min. 2—Mining Principles	3	Min. 8—Administration and Accounts	2
Min. 17—Problems	1	Min. 13—Utilization of Fuels	2
Min. 19—Ore and Coal Preparation	3	Min. 46—Mill and Smelter Design	2
Min. 45—Principles of Mill and Smelter Design	3	Min. 66—Ore Concentration Laboratory	3
Min. 99—Inspection Trip	0	Min. 90—Mining and Metallurgical Reports	1
Non-technical Elective[1]	3	Non-technical Elective[1]	3
Total	17	Total	18

Curriculum in Municipal and Sanitary Engineering

FIRST YEAR

FIRST SEMESTER	Hours[2]	SECOND SEMESTER	Hours[2]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[3]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	17 or 18	Total	18

Summer Reading, 50 points

SECOND YEAR

C. E. 27—Plane Surveying	3	C. E. 28—Higher Surveying	3
Language	4	Language	4
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lectures	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	18	Total	18

Summer Reading, 50 points

THIRD YEAR

Bact. 6—Bacteriology	2½	C. E. 52—Roads and Pavements	3
Chem. 10b—Water Analysis	2½	C. E. 60—Structural Stresses	4
C. E. 53—Railroad Surveying	3	C. E. 62—Structural Details	2
T. and A. M. 21—Analytical Mechanics	2	M. E. 2—Steam Engineering	3
T. and A. M. 29—Resistance of Materials	5	T. and A. M. 10—Hydraulics	3
Non-technical Elective[1]	2	Non-technical Elective[1]	3
Total	17	Total	18

FOURTH YEAR FOR THE CLASS OF 1918

C. E. 77—Masonry Construction	4	C. E. 80—Contracts and Specifications	2
C. E. 79—Cement Laboratory	1	E. E. 4—Elementary Electrical Engineering	2
C. E. 81—Reinforced Concrete	2	E. E. 64—Electrical Engineering Lab.	1
M. E. 61—Steam Laboratory	2	M. and S. E. 3—Sewerage	3
M. and S. E. 2—Water Supply Engineering	4	M. and S. E. 6b—Water Purification and Sewage Disposal	2
M. and S. E. 6a—Water Purification and Sewage Disposal	3	M. and S. E. 9—Hydraulic Design and Construction	2
M. and S. E. 99—Inspection Trip	0	M. and S. E. 98—Thesis or Approved Elective	2
Non-technical Elective[1]	2	Non-technical Elective[1]	2
Total	18	Total	16

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[1] Any approved non-technical course. See page 148.

[2] Semester hours. For definition, see page 243.

[3] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

Curriculum in General Engineering Physics

The object of this curriculum is to fit persons for investigation of general engineering problems calling for a knowledge of physics and mathematics. Students who expect to teach physics and allied subjects in engineering schools will also find this curriculum of interest.

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Inorganic Chemistry	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[2]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	17 or 18	Total	18

Summer Reading, 50 points

SECOND YEAR

German 1—Elementary German or French 1a	4	Math. 9—Integral Calculus	3
Math. 7—Differential Calculus	5	German 3—Narrative Prose or French	4
Chem. 5d—Elementary Quantitative Analysis	4	Chemistry (Elective)	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lectures	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	19	Total	18

Summer Reading, 50 points

THIRD YEAR

Math. 9a—Advanced Calculus	2	Phys. 4b—Electrical Measurements	2
Phys. 4a—Electrical Measurements	2	Phys. 17—Lighting, or 23—Sound	3
Phys. 16—Heat	3	M. E. 62—Steam Engines, etc	3
E. E. 25—D. C. Theory	4	E. E. 26—Alternating Current Theory	4
E. E. 75—D. C. Laboratory	2	E. E. 76—Alternating Current Laboratory	2
T. and A. M. 25—Resistance of Materials	4	Electives[3]	3–4
Total	17	Total	17–18

FOURTH YEAR

Phys. 14a—Dynamics	3	Math. 17—Differential Equations	3
Phys. 31a—Special Investigation	3	Phys. 24—Properties of Matter or Phys. 30—Introduction to Theoretical Electricity	3
Math. 16—Adv. Cal. and Diff. Equations	3	Phys. 31b—Thesis	3
M. E. 11—Thermodynamics	3	Chem. 31—Physical Chemistry	4
Physics Colloquium	0	Elective[3]	3–4
Elective[3]	3–5		
Total	15–17	Total	16–17

Curriculum in Railway Civil Engineering

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[2]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	17 or 18	Total	19

Summer Reading, 50 points

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

[3] At least nine hours of electives must be non-technical and the number selected should be such as to give a total of 141 semester hours.

SECOND YEAR

C. E. 27—Surveying	3	C. E. 28—Topographical Surveying	3
Language	4	Language	4
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
Phys. 1a—Physics Lectures	3	Phys. 1b—Physics Lectures	2
Phys. 3a—Physics Laboratory	2	Phys. 3b—Physics Laboratory	2
Mil. 3a—Military Drill	½	T. and A. M. 20—Analytical Mechanics	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	18	Total	18

Summer Reading, 50 points

THIRD YEAR

C. E. 51—Railroad Surveying	5	C. E. 60—Structural Stresses	4
R. E. 25—Railway Development	3	C. E. 62—Structural Details	2
T. and A. M. 21—Analytical Mechanics	2	R. E. 31—Ry. Yards and Terminals	3
T. and A. M. 29—Resistance of Materials	5	T. and A. M. 10—Hydraulics	3
Non-technical Elective[1]	3	Non-technical Elective[1]	3
		Technical Elective	2
Total	18	Total	17

FOURTH YEAR FOR THE CLASS OF 1918

C. E. 77—Masonry Construction	4	C. E. 80—Eng. Construction and Specifications	2
C. E. 79—Cement Laboratory	1	E. E. 4—Elem. Electrical Eng	2
C. E. 81—Reinforced Concrete Theory	2	E. E. 64—Elec. Engineering Lab	1
C. E. 83—Bridge Design	3	R. E. 51—Seminar	1
M. E. 1—Steam and Air Machinery	3	R. E. 98—Thesis (or Elective)	3
R. E. 50—Seminar	1	Non-technical Elective[1]	3
R. E. 99—Inspection Trip	0	Technical Elective	4
Technical Elective	4		
Total	18	Total	16

Curriculum in Railway Electrical Engineering

FIRST YEAR

FIRST SEMESTER	Hours[2]	SECOND SEMESTER	Hours[2]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—College Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Plane Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[3]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	17 or 18	Total	18

Summer Reading, 50 points

SECOND YEAR

Language	4	Language	4
Math. 7—Differential Calculus	5	Math. 9—Integral Calculus	3
M. E. 77—Foundry Work	3	M. E. 75—Forge Work	1
Phys. 1a—Physics Lectures	3	M. E. 79—Pattern Work	2
Phys. 3a—Physics Laboratory	2	Phys. 1b—Physics Lectures	2
Mil. 3a—Military Drill	½	Phys. 3b—Physics Laboratory	2
Mil. 3b—Military Theory	½	T. and A. M. 20—Analytical Mechanics	3
		Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	18	Total	18

Summer Reading, 50 points

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[1] Any approved non-technical course. See page 148.

[2] Semester hours. For definition, see page 243.

[3] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

THIRD YEAR

E. E. 25—Direct Current Apparatus	4	E. E. 26—Alternating Currents	4
E. E. 75—Electrical Laboratory	2	E. E. 76—Electrical Laboratory	2
M. E. 81—Machine Work	3	M. E. 2—Steam Engineering	3
Phys. 4a—Electrical and Magnetic Measurements	2	Phys. 4b—Electrical and Magnetic Measurements	2
R. E. 25—Railway Development	3	R. E. 60—Electric Railway Principles	2
T. and A. M. 25—Resistance of Materials	4	T. and A. M. 36—Analytical Mechanics	2
		Non-technical Elective[1]	3
Total	18	Total	18

FOURTH YEAR FOR THE CLASS OF 1918

M. E. 11—Thermodynamics	3	E. E. 56—Electrical Design	4
M. E. 61—Mechanical Laboratory	2	R. E. 63—Electric Railway Laboratory	2
R. E. 62—Electric Railway Laboratory	2	R. E. 65—Electric Railway Economics	4
R. E. 64—Electric Railway Practise	3	R. E. 98—Thesis (or Elective)	3
R. E. 66—Electric Railway Machinery	3	Non-technical Elective[1]	3
R. E. 67—Seminar	1		
R. E. 99—Inspection Trip	0		
Non-technical Elective[1]	3		
Total	1	Total	16

Curriculum in Railway Mechanical Engineering

FIRST YEAR

FIRST SEMESTER	Hours[2]	SECOND SEMESTER	Hours[2]
Chem. 1a or 1b—Inorganic Chemistry	3 or 4	Chem. 4—Qualitative Analysis	4
G. E. D. 1—Elements of Drafting	4	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Math. 6—Analytic Geometry	5
Math. 4—Trigonometry	2	Rhet. 2—Rhetoric and Themes	3
Rhet. 1[3]—Rhetoric and Themes	3	Phys. Tr. 2—Gymnasium	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Mil. 2a—Military Drill	½
Mil. 1a—Military Drill	½	Mil. 2b—Military Theory	½
Mil. 1b—Military Theory	½	Engineering Lecture	0
Engineering Lecture	0		
Total	17 or 18	Total	18

Summer Reading, 50 points

SECOND YEAR

Language	4	Language	4
Math. 7—Differential Calculus	5	M. E. 77—Foundry Work	3
M. E. 75—Forge Work	1	Math. 9—Integral Calculus	3
M. E. 79—Pattern Work	2	Phys. 1b—Physics Lectures	2
Phys. 1a—Physics Lectures	3	Phys. 3b—Physics Laboratory	2
Phys. 3a—Physics Laboratory	2	T. and A. M. 20—Analytical Mechanics	3
Mil. 3a—Military Drill	½	Mil. 4a—Military Drill	½
Mil. 3b—Military Theory	½	Mil. 4b—Military Theory	½
Total	18	Total	18

Summer Reading, 50 points

THIRD YEAR

Math. 9a—Integral Calculus	2	M. E. 12—Thermodynamics	5
M. E. 81—Machine Work	3	M. E. 64—Power Measurement	3
R. E. 25—Railway Development	3	M. E. 82—Machine Work	2
T. and A. M. 21—Analytical Mechanics	2	R. E. 6—Locomotives	4
T. and A. M. 29—Resistance of Materials	5	Non-technical Elective[1]	3
Non-technical Elective[1]	3		
Total	18	Total	17

FOURTH YEAR FOR THE CLASS OF 1918

E. E. 11—Direct Current Apparatus	3	E. E. 12—Alternating Current Apparatus	3
E. E. 61—Direct Current Laboratory	1	E. E. 62—Alternating Current Laboratory	1
M. E. 37—Science of Management	3	R. E. 7—Advanced Design	3
R. E. 2—Locomotive Design	3	R. E. 8—Railway Laboratory	2
R. E. 5—Railway Laboratory	3	R. E. 61—Electric Traction	3
R. E. 9—Seminar	1	R. E. 98—Thesis	3
R. E. 99—Inspection Trip	0	Non-technical Elective[1]	2
Non-technical Elective[1]	3		
Total	17	Total	17

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[1] Any approved non-technical course. See page 148.

[2] Semester hours. For definition, see page 243.

[3] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

THE COLLEGE OF AGRICULTURE

For the *buildings* used by this College, see page 54; for a list of its *curriculums*, page 65; for *clubs auxiliary to its curriculums*, page 102; for *honors*, page 86; for *honorary societies*, page 102; for *fees* and *expenses*, page 110.

GENERAL STATEMENT

This College offers curriculums to both men and women. The curriculums offered are designed for four distinct purposes:

First, and mainly, to train for the profession of farming.

Second, to train for the teaching of agriculture in the public schools.

Third, to train for the profession of landscape gardening.

Fourth, to train for the profession of floriculture.

The curriculums offered by the department of household science have two purposes in view:

First, and mainly, to train young women in the science and art of household affairs.

Second, to prepare teachers for giving instruction in domestic science in high schools, and, in connection with the College of Liberal Arts and Sciences, to fit for college and university positions.

In the case of both men and women the great purpose is to prepare for the practical affairs of life. In order that technical knowledge and skill may be developed along with, and not at the expense of, those things which tend to the production of cultured and versatile men and women, the technical work is closely associated with the related sciences, and students are required to divide their time fairly with those subjects that develop general knowledge and breadth of view.

The College offers over one hundred and sixty courses of instruction in technical subjects, besides opportunity to elect from the scientific and literary offerings of the other colleges of the University.

The elective system prevails, and with a few exceptions the student is left free to select those subjects which meet his needs, always under the advice and guidance of the faculty.

Credit is given for all work accomplished; this credit counts toward graduation if the student desires a degree.

ADMISSION

For the requirements for admission to the College of Agriculture, see the general statement of the entrance requirements of the University, pages 67-83.

ADMISSION TO GRADUATE WORK IN AGRICULTURE

While in general it will be expected that applicants for admission to the Graduate School shall have had an undergraduate course in scientific and technical agriculture equivalent to that of the University of Illinois, yet students who are otherwise eligible for admission to the Graduate School may be admitted to graduate standing in agriculture if they have had a thoro training in the fundamental sciences, even tho their undergraduate curriculum may have lacked to some extent the amount and kind of technical work included in our course.

SCHOLARSHIPS IN AGRICULTURE AND HOUSEHOLD SCIENCE

For detailed information concerning scholarships in agriculture and household science, see page 105.

FACILITIES FOR INSTRUCTION AND METHODS OF WORK

The affiliation of the College with the Agricultural Experiment Station enables the University to support a larger faculty than would otherwise be possible, and permits a higher degree of specialization. For the most part, those who teach in the College conduct experiments in the same subjects in the Station.

The methods of instruction vary with the nature of the courses. In general the laboratory method prevails. Text-books are used when good ones are available. Laboratory and text are supplemented by lectures and reference readings.

AGRICULTURAL EXTENSION

Agricultural extension work serves as the intermediary between the College of Agriculture and the Agricultural Experiment Station and the local community and the farm. Each department does extension work, and so far as possible provides special men for such work. The responsibility for the work of these men lies with their own department. For this reason not all of the extension effort issues from one office.

For administrative purposes and for the coordination of these activities through a regular channel, agricultural extension is administered as a separate department, conducting all extension enterprises which do not deal with technical subjects and cooperating with other departments in diffusing the results of their work in the State.

Some of the general extension enterprises are: agricultural extension schools and demonstrations in different localities; the two weeks' course given annually at the College in January; helping at farmers' institutes and similar gatherings, with special railway lecture trains, at the boys' state fair school, and in educational exhibits at fairs and elsewhere; welfare work in rural communities; and excursions to the College. (See also under University Extension, Part V.)

Courses of study are offered to assist in determining what phases of agriculture are suitable for secondary school purposes and how they should be taught, and for the discussion of methods of organizing extension activities.

AGRONOMY

The department of agronomy gives instruction in those subjects which relate to the field, as drainage, farm machinery, field crops; the chemistry, physics, and biology of the soil; manures and rotation in their relation to fertility; plant breeding. The department possesses equipment and facilities for instruction in these subjects, and, in addition, affords opportunities for contact with the research work of the Agricultural Experiment Station, especially in crop production, soil fertility, soil biology, and plant breeding, in the analytical and pot-culture laboratories on the soil bins and on the experiment fields at the University and in other parts of the State.

Attention is called to the fact that, if circumstances prohibit a regular four-year curriculum, it is possible for a student who has had sufficient preparatory training to arrange his studies so as to obtain the necessary prerequisites and complete the general courses in soil physics and soil fertility in two years. (See Agronomy 9 and 12.)

ANIMAL HUSBANDRY

The department of animal husbandry offers courses covering the study of sheep, swine, poultry, and beef cattle and their products; heavy and light horses with their care and training; the management of herds, flocks, and studs; feeding, breeding, and marketing; and the chemical and physiological phases of animal nutrition.

The University herds, flocks, and studs contain about six hundred pure bred cattle, swine, sheep, and horses, and several hundred fowls, ducks, and turkeys, which are available for class purposes. These animals are also used for investigations in feeding and breeding, and for illustration of breed types and characteristics. The breeds represented are Shorthorn, Hereford, and Aberdeen Angus cattle; Poland-China, Berkshire, Duroc Jersey, Chester White, Tamworth, Large Yorkshire, and Hampshire swine; Shropshire, Oxford, Southdown, Hampshire, Rambouillet, and Dorset sheep; and Percheron, Standard-bred, Shire, Belgian, and American Saddle horses. In addition to this pure-bred live stock, a large number of grade animals of the various classes of live stock furnish material for judging practise. In this practise, standard market classes and grades of live stock are illustrated, and instruction is given in the selection of animals according to feed-lot and market requirements. The stock pavilion offers opportunity for show and judging work. (For detailed description, see page 55.) The lectures of the various courses are supplemented by 1,000 or more lantern slides, charts, diagrams, models, and photographs. Pedigree and breed work is facilitated by 75 sets of the different herd, stud, and flock registers, and complete files of the leading American and British journals.

The equipment for instruction and investigation in the feeding, breeding, and management of live stock consists of modern buildings for the housing of beef cattle, swine, sheep, horses, and poultry, with the appliances necessary for individual and collective feeding tests; brick-paved feed lots and open sheds, in which steers may be fed in carload lots; a feed storage barn, with various forms of grinding mills and other machinery for the preparation of feed; and various kinds of harness, vehicles, and other appliances for the training of horses. The department also maintains a cold-storage room and other equipment for demonstrations in the cutting and handling of meats; a collection of wool samples, and microscopes for the study of wool. The chemistry and physiology laboratories of the department afford facilities for advanced work in animal nutrition.

DAIRY HUSBANDRY

The department of dairy husbandry furnishes instruction in the production and care of milk and in the manufacture of dairy products.

The various courses cover the application of science to dairy problems, approved methods in dairy operations, and the economic significance of these operations.

In addition to laboratories and lecture rooms, its equipment includes a farm of 160 acres with buildings; about 100 milch cows, bulls, and young stock, including typical representatives of the Ayrshire, Guernsey, Jersey, and Holstein-Friesian breeds; a manufactory with modern equipment for handling city milk and making butter, cheese, ice cream, and bulk condensed milk; and facilities for the distribution of milk on the University milk route.

HORTICULTURE

The department of horticulture offers courses in the five divisions of horticulture (pomology, olericulture, floriculture, landscape gardening, and forestry), and also in subjects dealing with all the divisions, such as plant propagation, spraying, the evolution of horticultural plants, and experimental horticulture.

For instruction in pomology, use is made of the fruit plantations maintained by the department. The orchards of different ages afford opportunities for practise in pruning and studies of tree types, while the products furnish materials for practise in the grading and packing of fruits and the study of systematic pomology. A collection of fruit packages illustrates the types used in commercial packing. There is also a collection of wax models of fruits representing the principal varieties grown in Illinois.

For olericulture, or vegetable gardening, certain areas of ground are reserved on which garden operations are illustrated and various crops are grown. The equipment also includes a greenhouse 105x28 feet, hotbed frames and sash, and an assortment of seed drills and wheel hoes, hand tools, markers, planters, and other appliances for the growing and handling of vegetables.

The equipment in floriculture includes ten glass houses covering an area of 28,000 square feet, and a service building. Six of the houses, including the palm house with an area of 3,200 square feet, are used for instructional work exclusively, and the other four, while intended primarily for experimental purposes, add to the facilities for instruction in floriculture as conducted on a commercial basis. Besides roses, carnations, and chrysanthemums, the houses contain a selection of plants representing all the forms used in commercial and decorative or conservatory work. The service building contains laboratories, class rooms, offices, and potting, storage, and work rooms. An assortment of florists' supplies is maintained. Floricultural periodicals, reference books, and a series of over eight hundred slides add to the equipment. The ornamental gardens maintained by the department furnish illustrative materials for students in floriculture and landscape gardening.

The equipment in landscape gardening includes four drafting rooms with desks for individuals, modern filing devices for office practise, seminar rooms, lecture rooms, offices, and a library. The library contains a complete collection of books, periodicals, pamphlets, photographs of examples of foreign and American landscape gardening, and works on civic design, all carefully indexed. There is a collection of representative drawings and blue-prints from the offices of practising landscape architects, and one of city maps.

The collection of trees and shrubs growing on the campus and about certain residences near the University furnishes material for plant studies in the courses in planting design. The herbarium of the division is also available for reference. A series of 3,500 lantern slides is used in lectures.

Instruction in forestry is facilitated by a collection of native woods and a forest tree plantation of about twenty acres, containing Scotch pine, white pine, Norway spruce, European larch, green ash, black walnut, hickory, bur oak, white elm, and other species.

HOUSEHOLD SCIENCE

The courses given in this department are planned to meet the needs of two classes of students, viz: (a) those specializing in other lines of work, but desiring a knowledge of the general principles and facts of household science; (b) those who wish to specialize in household science.

The department is housed in the north wing of the Woman's Building. The kitchen for extension work, with dining room adjoining, is in the basement. The first floor contains two class rooms, a seminar room, an exhibition room for illustrative material for work in house construction and textile fabrics, offices, and cloak rooms. On the second floor are individual, diet, institutional, and class kitchens, small and large dining rooms, chemical laboratory, two large sewing rooms, offices, and store rooms. On this floor provision is made for the study of the preparation and service of food in large quantities in the institutional kitchen and large dining room adjoining. The equipment on this floor provides practise for those interested in the problems of lunchroom management and for dietitians. The third floor contains additional sewing rooms, offices, equipment for teaching home care of the sick, and an apartment in which the problems of house construction and furnishing and household administration are studied.

REQUIREMENTS FOR GRADUATION

Students who have satisfied the University requirements as to registration and residence and have maintained throughout their course a satisfactory record of scholarship and moral character will be graduated with the degree of Bachelor of Science, on completion of the studies of the prescribed list and sufficient electives to make a total of 130 semester hours.

A thesis is not required for graduation, but any student who has completed not less than 90 hours of credit before the senior year may then elect a thesis course in any department in which he has done not less than 20 hours' work, subject to the approval of the head of the department.

Graduates of approved colleges may expect to secure a degree in agriculture from the University on completion of the technical and scientific requirements. This will ordinarily require approximately two years of residence work; a minimum of one year is required.

In physical training not more than five semester hours for men and seven semester hours for women are accepted toward graduation.

GENERAL CURRICULUM IN AGRICULTURE

Required for the Degree of Bachelor of Science in General Curriculum in Agriculture.

All students except those in the special curriculums in household science, floriculture, and landscape gardening are required to take the same work during the freshman year and part of the sophomore year. This work gives the student a correct conception of the fundamental farm practises and an insight into the technical branches of agriculture, such as animal and dairy husbandry, horticulture, farm crops, soils, farm mechanics, and buildings, and leaves the junior and senior years open for elective studies.

One hundred thirty hours are required for graduation, as follows:

Agriculture prescribed first two years	19 hours	
Agriculture prescribed as electives	40 hours	
Total agriculture required		59 hours
Non-agriculture prescribed	41 hours	
Non-agriculture prescribed as electives	15 hours	
Total non-agriculture required		56 hours
Open electives		15 hours
		130 hours

FIRST YEAR

FIRST SEMESTER	Hours[1]
Agron. 25—Farm Crops	4
Chem. 1—Inorganic Chemistry	5
or	
A. H. 5—Live Stock Judging	3
D. H. 3—Elements of Dairy Husbandry	1
Chem. 1a—Inorganic Chemistry	3
and	
Ag. Ext. 4—Elementary Agricultural Extension	1
Hort. 1a—Elements of Horticulture	2
Rhet. 1[2]—Rhetoric and Themes	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1
Mil. 1a—Military Drill	½
Mil. 1b—Military Theory	½
Total	15–17

SECOND SEMESTER	Hours[1]
Agron. 25—Farm Crops	4
or	
A. H. 5—Live Stock Judging	3
D. H. 3—Elements of Dairy Husbandry	1
and	
Chem. 2a—Inorganic Chemistry and Qualitative Analysis	5
Hort. 1b—Elements of Horticulture	2
Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 2—Gymnasium	1
Mil. 2a—Military Drill	½
Mil. 2b—Military Theory	½
Total	16

SECOND YEAR

A. H. 8 and 21—Principles of Breeding and Feeding	3
Botany 1—General Botany	5
or	
Agronomy 26—Elementary Farm Mechanics	3
Chemistry 13a—Elementary Quantitative Analysis	5
and	
Mil. 3a—Military Drill	½
Mil. 3b—Military Theory	½
Electives	6–9
Total	15–18

A. H. 8 and 21—Principles of Breeding and Feeding	3
Botany 1—General Botany	5
or	
Agronomy 26—Elementary Farm Mechanics	3
Chemistry 13a—Elementary Quantitative Analysis	5
and	
Mil. 4a—Military Drill	½
Mil. 4b—Military Theory	½
Electives	6–9
Total	15–18

In addition to the prescribed subjects, students will take the following:

Agriculture, electives	40 hours
Non-agriculture, electives	15 hours
English 20	4 hours
Science, elective	5 hours
Open electives	15 or 17 hours

CURRICULUM IN FARM ORGANIZATION AND MANAGEMENT

FIRST YEAR

FIRST SEMESTER	Hours[1]
Agron. 25—Farm Crops	4
Chem. 1—Inorganic Chemistry	5
or	
A. H. 5—Live Stock Judging	3
D. H. 3—Elements of Dairy Husbandry	1
Chem. 1a—Inorganic Chemistry	3
and	
Ag. Ext. 4—Elementary Agricultural Extension	1
Hort. 1a—Elements of Horticulture	2
Rhet. 1[2]—Rhetoric and Themes	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1
Mil. 1a—Military Drill	½
Mil. 1b—Military Theory	½
Total	15–17

SECOND SEMESTER	Hours[1]
Agron. 25—Farm Crops	4
cr	
A. H. 5—Live Stock Judging	3
D. H. 3—Elements of Dairy Husbandry	1
and	
Chem. 2a—Inorganic Chemistry and Qualitative Analysis	5
Hort. 1b—Elements of Horticulture	2
Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 2—Gymnasium	1
Mil. 2a—Military Drill	½
Mil. 2b—Military Theory	½
Total	16

SECOND YEAR

Prescribed Subjects	
Chem. 13a—Elementary Qualitative Analysis	5
A. H. 8 and 21—Principles of Breeding and Feeding	3
Mil. 3a—Military Drill	½
Mil. 3b—Military Theory	½

Prescribed Subjects	
Agron. 26—Elementary Farm Mechanics	3
Mil. 4a—Military Drill	½
Mil. 4b—Military Theory	½

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

In addition to the above courses, the following are also prescribed:

Accountancy 11 or 1	3 or 6 hours
Economics 2 or 1	3 or 5 hours
Economics 16c	3 hours
Economics 26	3 hours
Business Law 2	3 hours
Elective economics, minimum of	9 hours
Farm Management 1	3 hours
English 20	4 hours
Philosophy 1	3 hours
Elective science, minimum of	10 hours
Elective agriculture, minimum of	28 hours
Open electives	13 or 6 hours
Total prescribed	130 hours

To avoid conflicts with other prescribed work it is suggested that the courses in economics, accountancy, and farm management be taken in the following order:

SECOND YEAR

Economics 26	3	Economics 1 or 2	5 or 3
Economics 1[1]	5		

THIRD YEAR

Accountancy 11 or 1	3 or 6	Economics 14	2
Economics 23	3	Economics 16c	3
		Farm Management 1	3

FOURTH YEAR

Economics 15	2	Business Law 2	3
		Economics 17	2

CURRICULUM IN FLORICULTURE

Required for the Degree of Bachelor of Science in Floriculture

The object of this curriculum is to fit men and women for the profession of floriculture. The laboratory exercises in the technical subjects consist of practical work in the greenhouses and gardens and give the students a working knowledge of the best methods now in use.

FIRST YEAR

FIRST SEMESTER *Prescribed Subjects*	Hours[2]	SECOND SEMESTER *Prescribed Subjects*	Hours[2]
Chem. 1 or 1a—Inorganic Chemistry	5 or 3	Chem. 2a—Inorganic Chemistry and Qualitative Analysis	5
Hort. 5—Plant Propagation	5	Hort. 4—Plant Houses	4
Rhet. 1[3]—Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Phys. Tr. 2—Gymnasium	1
Mil. 1a—Military Drill	½	Mil. 2a—Military Drill	½
Mil. 1b—Military Theory	½	Mil. 2b—Military Theory	½
Total	13 or 15	Total	14

SECOND YEAR

Agron. 9—Soil Physics	5	Ent. 4—Economic Entomology	3
Bot. 1—General Botany	5	Hort. 15a—Principles of Plant Growing	5
Engl. 20—Chief English Writers	4	Hort. 24a—Trees and Shrubs	3
Mil. 3a—Military Drill	½	Hort. 31—Garden Flowers	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	15	Total	15

THIRD YEAR

Bot. 27a—Plant Physiology	5	Econ. 2—Principles of Economics	3
Hort. 15b—Commercial Crops	5	Hort. 7—Spraying	3
Hort. 24b—Trees and Shrubs	3	Hort. 30—Decorative Plants	5
		Hort. 42—Landscape Design	3
Total	13	Total	14

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[1] Students taking Economics 1 will not take Economics 2.

[2] Semester hours. For definition, see page 243.

[3] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

FOURTH YEAR

Bot. 7a—Plant Pathology	5	Hort. 32b—Floral Decoration	3
Hort. 32a—Floral Decoration	3		
Total	8	Total	3
Suggested Electives		*Suggested Electives*	
Accountancy		Agron. 12—Soil Fertility	5
Chem. 13a—Elementary Quantitative Analysis	5	A. H. 30—Genetics	5
Economics		Bot. 3a—Plant Anatomy	5
		Bot. 4a—Taxonomy of Cormophytes	5
		Bot. 7b—Methods of Study of Fungi	5
		Hort. 28—Exotics	1

CURRICULUM IN HOUSEHOLD SCIENCE

Of the 130 hours required for graduation, 92 are provided for in the prescribed list and the restricted electives of List A. The other 38 hours of credit necessary for graduation may be taken, subject to the approval of the Dean of the College, from any courses offered in the University. Holders of scholarships in household science in this college take the course as laid out here. Variations from it can be made only by special permission of the Council of Administration on recommendation of the faculty of the College.

PRESCRIBED SUBJECTS

Required for the Degree of Bachelor of Science in Household Science

Art and Design 1, 12, 19, 20	9 hours
Bacteriology 5	5 hours
Botany 1 or Zoology 1	5 hours
Chemistry 1 or 1a, 2a	8 or 10 hours
Economics 2	3 hours
English 1, 2	8 hours
Household Science 1, 2, 3, 5, 6, 7, 12, 13, 19[1]	25 hours
History 1a-1b, or 3a-3b	6 or 8 hours
Physiology 4a or 4b	5 hours
Physical Training 7a-7b, 9	3 hours
Rhetoric 1, 2	6 hours
English or Rhetoric	5 hours
List A, a minimum of	4 hours
Total required subjects	92 to 96 hours
Electives	38 to 34 hours
Total	130 hours

ELECTIVES

List A—English 12, 13, 21, 22, 23, 24
Horticulture 1a, 1b, 2, 3, 5, 10a, 19, 28
Household Science 11, 14, 17, 18
Economics 22, 26
Sociology 1
Physics 7a, 8a
Education 1, 6, 10
Agronomy 7, 9, 12, 25, 26
Animal Husbandry 10, 5
Dairy Husbandry 1, 3, 4, 11, 13
Agricultural Extension 1, 3, 4

Suggested Curriculum

FIRST YEAR

FIRST SEMESTER	Hours[2]	SECOND SEMESTER	Hours[2]
A. and D. 1—Freehand Drawing	3	Chem. 2a—Inorg. Chem. and Qual. Anal.	5
Chem. 1[3] or 1a—Inorganic Chemistry	5 or 3	Econ. 22—Economic History of the U. S.	3
H. Sci. 2—Home Arch. and Sanitation	2	H. Sci. 1[5]—Principles of the Selection and Preparation of Food	3
Rhet. 1[4]—Rhetoric and Themes	3	H. Sci. 7—Textiles	2
Lib. Sci. 12—General Reference	2	Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 7a—Physical Training	1	Phys. Tr. 7b—Physical Training	1
Phys. Tr. 9—Hygiene	1		
Total	17 or 15	Total	17

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[1] Students who wish to be recommended by the Department for teaching, whether in the schools or in hospitals, are advised to take Household Science 11.

[2] Semester hours. For definition, see page 243.

[3] If Chemistry 1a is taken, a 2-hour elective must be added, with the approval of the adviser.

[4] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

[5] Attention is called to the fact that high school physics is a prerequisite for Household Science 1.

SECOND YEAR

Bot. 1—General Botany or Zool. 1—General Zoology	5	A. and D. 12—Applied Design	2
Engl. 1—Survey of English Literature	4	Econ. 2—Principles of Economics	3
H. Sci. 6—Economic Uses of Food	4	Engl. 2—Survey of English Literature	4
Econ. 26—Economic Resources or Hort. 19—Amateur Floriculture	3	Physiol. 4—General Physiology	5
Total	16	Total	14

THIRD YEAR

A. and D. 19—History of Fine Arts	2	A. and D. 20—History of Fine Arts	2
Engl. 23—Introduction to Shakespeare	3	Bact. 5—Introductory Bacteriology	5
Hist. 1a—Continental European History or Hist. 3a—History of the U. S.	4 or 3	Hist. 1b—Continental European History or Hist. 3b—History of the U. S.	4 or 3
H. Sci. 5—Dietetics	3	H. Sci. 3—Home Decoration	3
H. Sci. 19—Dress Design	3	H. Sci. 12—Clothing	2
Total	15 or 14	Total	16 or 15

FOURTH YEAR

Educ. 1—Introduction to Education	4	Educ. 10—Technics of Teaching	3
H. Sci. 13—History of Home Economics	2	H. Sci. 9—Individual Problems	3
H. Sci. 15—Economics of the Family	3	H. Sci. 10—Home Management	2
Sociol. 1—Principles of Sociology	3	H. Sci. 11—Teachers' Course	3
		H. Sci. 17—Study of Textiles	3
		H. Sci. 28—Organization of the Household	3
Total	12	Total	17

CURRICULUM IN INTERIOR DECORATION

Required for the Degree of Bachelor of Science in Household Science

Of the 130 hours required for graduation, 97 are provided for in the curriculum. The other 33 hours of credit necessary for graduation may be taken, subject to the approval of the Dean of the College, from any courses offered in the University, for which the student may have the prerequisites.

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Arch. 31—Architecture and Freehand Drawing	4	Arch. 32—Architecture and Freehand Drawing	4
H. Sci. 2—Home Architecture and Sanitation	2	G. E. D. 2—Descriptive Geometry	4
Math. 2—Advanced Algebra	3	Rhet. 2—Rhetoric and Themes	3
Math. 4—Trigonometry	2	Phys. Tr. 7b—Gymnasium	1
Rhet. 1[2]—Rhetoric and Themes	3		
Phys. Tr. 7a—Gymnasium	1		
Phys. Tr. 9—Hygiene	1		
Total	16	Total	12

SECOND YEAR

Arch. 13—History of Architecture	2	Arch. 14—History of Architecture	2
Arch. 23—Freehand Drawing	2	Arch. 24—Freehand Drawing	2
Arch. 33—Architectural Design	3	Arch. 34—Architectural Design	3
Arch. Eng. 43—Working Drawings	2	Arch. Eng. 44—Working Drawings	2
French or German	4	French or German	4
Total	13	Total	13

THIRD YEAR

Arch. 15—History of Architecture	2	Arch. 16—History of Architecture	2
H. Sci. 22—Theory of Color	3	H. Sci. 23—Theory of Color	3
H. Sci. 7—Textiles	2	H. Sci. 3—Elementary Home Decoration	3
H. Sci. 21—Weaving	1	H. Sci. 17—Problems in the Study of Textiles	3
Hort. 21a—Landscape Design	4	Hort. 21b—Landscape Design	4
Total	12	Total	15

FOURTH YEAR

Arch. 67—Theory of Form and Color	2	E. E. 92—Lighting and Wiring	2
H. Sci. 24—Color Application (Freehand)	2	H. Sci. 25—Color Application (Freehand)	2
H. Sci. 26—Floor and Wall Coverings	3	H. Sci. 27—Furniture, brasses	3
———— History of Sculpture and Painting	2		
Total	9	Total	7

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

CURRICULUM IN LANDSCAPE GARDENING

Required for the Degree of Bachelor of Science in Landscape Gardening

A four years' course in preparation for professional practise of landscape gardening. Courses are open to any student in the University having the prerequisites or their equivalents. Students may petition for the substitution of first or second year French for an equal number of hours of required work on approval of the department.

FIRST YEAR

FIRST SEMESTER		SECOND SEMESTER	
Prescribed Subjects	Hours[1]	*Prescribed Subjects*	Hours[1]
Arch. 31—Architectural Drawing	4	Arch. 32—Architectural Drawing	4
Hort. 5—Plant Propagation	5	Bot. 1—Introductory Course	5
Hort. 10a—Rural Improvement	2	Hort. 10b—Town Improvement	2
Rhet. 1[2]—Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 1 and 1a—Gymnasium and Hygiene	1	Phys. Tr. 2—Gymnasium	1
Mil. 1a—Military Drill	½	Mil. 2a—Military Drill	½
Mil. 1b—Military Theory	½	Mil. 2b—Military Theory	½
Total	16	Total	16

SECOND YEAR

Prescribed Subjects		*Prescribed Subjects*	
Bot. 4d—Taxonomy	3	C. E. 32—Surveying	3
C. E. 31—Surveying	3	Hort. 21b—Landscape Design	4
Hort. 21a—Landscape Design	4	Hort. 24a—Trees and Shrubs	3
Mil. 3a—Military Drill	½	Hort. 31—Garden Flowers	3
Mil. 3b—Military Theory	½	Mil. 4a—Military Drill	½
		Mil. 4b—Military Theory	½
Total	11	Total	14
Electives		*Electives*	
A. and D. 12—Theory and Practise	2	Arch. 14—History of Architecture	2
Arch. 13—History of Architecture	2	Ent. 4b—Introductory Economic Entomology	3
A. and D. 10—Sketching	1	Geol. 12—Geology of Soils	5
		Hort. 2—Small Fruits	3
		Zool. 16—Field Ornithology	2

THIRD YEAR

Prescribed Subjects		*Prescribed Subjects*	
Hort. 23a—Landscape Design	4	Hort. 23b—Landscape Design	4
Hort. 24b—Trees and Shrubs	3	Hort. 26a—Planting Design	3
Hort. 27a—Landscape Construction	3	Hort. 27b—Landscape Construction	3
		Hort. 36—Landscape History	2
		Hort. 41—Civic Design (Elementary Course)	1
Total	10	Total	13
Electives		*Electives*	
Arch. 15—History of Architecture	2	Arch. 16—History of Architecture	2
A. and D. 13—History and Practise	2	A. and D. 8—Modeling	2
Econ. 2—Principles of Economics	2	Bot. 20—Plant Diseases	3
Hort. 8—Fruit Culture	5	Hort. 7—Spraying	3
Hort. 29a—Garden Design	3	Hort. 29b—Garden Design	3
Pol. Sci. 1—American Government	3	Rhet. 17—Advanced Composition	3
Sociol. 1—Principles of Sociology	3	Sociol. 7—The Rural Community	2
		Ent. 20—Insects of the Garden	2

FOURTH YEAR

Prescribed Subjects		*Prescribed Subjects*	
C. E. 55—Roads and Pavements	2	Hort. 25b—Landscape Design	5
Hort. 25a—Landscape Design	5	Hort. 28—Exotics	1
Hort. 26b—Planting Design	3	Hort. 37b—Civic Design	3
Hort. 37a—Civic Design	3	Hort. 38b—Office Practise in Landscape Gardening	2
Hort. 38a—Office Practise in Landscape Gardening	2		
Total	15	Total	11
Electives		*Electives*	
A. and D. 4—Water Color	2	Hort. 15a—Plant Growing	5
Hort. 40a—Trees and Shrubs (Advanced Course)	3	Hort. 40b—Trees and Shrubs (Advanced Course)	3
Pol. Sci. 4—Municipal Government	3	Ent. 20—Insects of the Garden	2
Sociol. 10—Population	3		

General Electives

Hort. 19—Amateur Floriculture	3	Chem. 1 or 1a—Inorganic Chemistry	5 or 3
Hort. 39[3]—Special Lectures	1-8	Modern Language	8
Zool. 1—General Zoology	5	Physics	10

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2, may be excused from Rhetoric 1. See page 73.

[3] Students taking the professional course are required to register in Horticulture 39 *each semester*.

CURRICULUM FOR PROSPECTIVE TEACHERS OF AGRICULTURE

A curriculum is offered for prospective teachers of agriculture. Among the subjects recommended are the following:

Agronomy 2, 9, 12, 25, 26; Animal Husbandry 1a, 2a, 4a, 5, 6, 11a, 11b, 30;[1] Dairy Husbandry 2, 3; Horticulture 1a, 1b, 3, 5, 10a, 19; Agricultural Extension 1, 4-5; Botany 1, 3b; Chemistry 1, 2, 3, 13a; Entomology 4a-4b; Zoology 1; English 20; Rhetoric 1-2, 19; Public Speaking 5-6; Economics 2; Education 1, 6; Library Science 12; Military 1, 2; Physical Training 1, 2, 1a; Foreign language.

For further information concerning this curriculum, address the Dean of the College of Agriculture.

TWO WEEKS' COURSE IN AGRICULTURE

The Corn Growers' and Stockmen's Convention is held annually at the College of Agriculture the last two weeks in January. (The meeting in 1918 was for one week only, January 28 to February 2, and was in the nature of a special conference on the war situation.)

At the time of this convention the College usually gives instruction for two weeks in subjects of special interest to young men on the farm, such as corn and stock judging, milk and seed testing, soils, etc. A morning session of two hours each day is devoted to the discussion of questions of importance to the farmer. In the afternoon an hour is given to lectures upon topics of general interest. The rest of the day is filled with class work in the subjects mentioned above. Each year about a thousand men who are unable to spend a longer time away from home avail themselves of this opportunity to come in touch with the work of the College.

THE SCHOOL FOR HOUSEKEEPERS

A two-weeks' course in household science consisting of lectures and recitation work is given in the rooms of the department of household science in the Woman's Building. (See University Extension, Home Economics, Part V.)

Admission to Short Courses

No entrance examinations are required and any farmer or farmer's son or daughter may enter these courses. It is important that everyone should be here at the opening of the session. On arrival at Champaign or Urbana, application should be made at the University Young Men's Christian Association, where information concerning board and room may be obtained.

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[1] Students taking the Curriculum for Teachers may take Animal Husbandry 30 for one-half semester and receive 2½ credits therefor.

THE GRADUATE SCHOOL

THE EXECUTIVE FACULTY

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT OF THE UNIVERSITY

DAVID KINLEY, Ph.D., LL.D., *Professor of Economics and Dean*
ALBERT PRUDEN CARMAN, A.M., D.Sc., *Professor of Physics*
JULIUS GOEBEL, Ph.D., *Professor of Germanic Languages*
GEORGE ALFRED GOODENOUGH, M.E., *Professor of Thermodynamics*
HARRY ALEXIS HARDING, Ph.D., *Professor of Dairy Bacteriology*
LAURENCE MARCELLUS LARSON, Ph.D., *Professor of History*
HERBERT WINDSOR MUMFORD, B.S., *Professor of Animal Husbandry*
WILLIAM ALBERT NOYES, Ph.D., LL.D., *Professor of Chemistry*
WILLIAM ABBOTT OLDFATHER,[1] Ph.D., *Professor of Classics*
STUART PRATT SHERMAN, Ph.D., *Professor of English*
ARTHUR NEWELL TALBOT, C.E., *Professor of Municipal and Sanitary Engineering*
EDGAR JEROME TOWNSEND, Ph.D., LL.D., *Professor of Mathematics*
HENRY BALDWIN WARD, Ph.D., *Professor of Zoology*
CHARLES MAXWELL McCONN, A.M., *Registrar, Secretary of the Faculty*

HISTORY AND ORGANIZATION

The University of Illinois offered facilities for advanced study and research in various lines as early as 1872. Organized graduate instruction, however, under the name of the Graduate School, was first undertaken in 1892. In 1894 the administration of the school was vested in the Council of Administration, and the Vice-President of the University became Dean of the School. In 1906 the Graduate School was organized as a separate faculty, consisting of a dean and members of the University faculty assigned to this duty by the President.

By action of the Trustees the teaching faculty of the Graduate School includes all members of the University faculty who give instruction in approved graduate courses. The affairs of the School, however, are in charge of the Executive Faculty appointed each year by the President.

ADMISSION

Admission to the Graduate School may be granted to graduates of institutions whose requirements for the bachelor's degree are substantially equivalent to those of the University of Illinois, and to applicants from other institutions approved by the Executive Faculty, as hereinafter provided. *Admission to the Graduate School does not, however, imply admission to candidacy for an advanced degree, and gives no right or claim to be so admitted. Such candidacy is determined by the Faculty after the student has demonstrated by his work here, for from two to five months, that he has the ability to do major work of graduate character. A mere accumulation of "credits" or "grades" is not sufficient.*

A graduate of an institution meeting the requirements of a standard college, as described below, may be admitted to the Graduate School, provided he satisfies the

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[1] On leave of absence, second semester.

Dean and the departments concerned that he will be able to proceed to the master's degree in a period not exceeding two years.

For purposes of admission to the Graduate School a *standard college* is one which meets the following requirements:

1. An enrollment of not fewer than one hundred students of college grade, with an average for a series of years of at least twenty-five percent registered in the junior and senior classes.
2. A graduation requirement of four years (120 semester hours) of collegiate grade.
3. A minimum entrance requirement of 14 units. By the minimum requirement is meant the smallest number of units with which a student may be permitted to begin college work, i. e., the nominal requirement minus the number of units of conditions allowed.
4. A requirement that all entrance conditions must be removed before a student may be permitted to begin a second year of work in the same institution.
5. Not less than eight distinct departments in liberal arts and sciences, with at least one professor giving full time to college work in each department.
6. A minimum educational attainment of all college teachers of academic subjects equivalent to graduation from a college of high grade and graduate work equal to that required for the master's degree at the University of Illinois.
7. A maximum of 16 semester hours per week required of college teachers.
8. A maximum enrollment of 30 students in recitation or laboratory sections.
9. Buildings and equipment of the value of at least $100,000.
10. A productive endowment sufficient to yield a net annual income of at least $10,000 available for instructional purposes in the college department (liberal arts and sciences). If the institution offers courses in addition to the usual liberal arts course, it shall have a correspondingly larger income.
11. A library of not less than 10,000 bound volumes in addition to public documents.
12. Laboratory equipment of a value of not less than $3,000 in physics ($4,000 if work is offered in advance of one-year course), $2,500 in chemistry, and $2,500 in biology.
13. In addition to the foregoing specific requirements, the general standard of the administration and faculty shall be considered.

Admission to graduate courses may be granted only to those who have had the requisite undergraduate work in those courses or departments. But a student of mature age who satisfies the Dean and the department concerned of his ability to pursue graduate work in a given line may be enrolled in particular graduate courses, without reference to a degree, and permitted to carry on such study or investigation under the direction of a department of the University as the department shall recommend and the Dean approve.

Application blanks for admission may be secured from the Registrar of the University. Every applicant must submit with his application for admission an official transcript of his college record.

CHARACTER OF GRADUATE WORK

The principal aim of graduate study is the development of the power of independent work and the promotion of the spirit of research. Each candidate for a degree is expected to have a wide knowledge of his subject and of related fields of work; for the graduate student is not expected to get from lecture and laboratory courses all the knowledge and training necessary to meet the requirements for his degree.

Students, especially candidates for the doctor's degree, are warned against restricting themselves to the courses prescribed or suggested by the departments in which they are studying. Each student is expected to do a wide range of private reading and study, and in many cases will find it advisable to take one or more courses of lectures quite outside the field of his chosen subject.

REGISTRATION AND PROGRAM OF STUDY

The following regulations concerning registration and program of studies are laid out primarily for first-year students. Second-year and third-year graduate students fill out their programs irrespective of the unit value of courses, according to their needs, under the advice of their instructors.

Registration.—Each graduate student must register when he first connects himself with the University, and afterwards at the beginning of each semester.

The registration of a new student may be accepted at any time provided the student is prepared to take up courses actually under way. Credit towards the fulfillment of the residence requirement dates, however, from the time of registration, and not from the beginning of the semester or year in which the student enters. Registration will not be permitted later in the year than April 1, except in the case of students who expect to continue through the summer session, or are returning to complete a year's work which has been broken into by illness or other unavoidable interruption.

The first registration, or that on entrance, is permitted only after the student's application for admission to the Graduate School, setting forth his educational attainments, has been duly approved.

A new student must fill out in duplicate an application for admission and submit it to the Registrar, from whom he will receive a card of admission and a study-list. He should fill out the study-list after consultation with his adviser, or the person in charge of his major work, and also with the instructors whose courses he wishes to elect. *In all cases, registration must be completed within two weeks.* Otherwise it is subject to a fee of one dollar.

Advisers.—The person in charge of the major work of the student becomes his adviser, and, together with those with whom the student is taking first and second minor courses, forms a committee with general supervision over the student's general course of study. This committee is expected to follow the student's work and see that he is helped to lay out an intelligently planned course, and to give him such advice as may be necessary concerning his scholastic career.

Amount of Work.—Each student is required to attend a minimum of four class, lecture, or laboratory exercises a week in the first year of his graduate study; in no case is he permitted during his course to attend more than twelve a week.

Each first-year student doing full work must take at least four unit courses, and may be required to take five, or their equivalent. A unit course is one which requires ten hours of time a week through one semester, irrespective of the mode of distribution of that time in class work, laboratory work, and private study. Four such courses or their equivalent constitute a full *minimum* program for one semester, and eight such courses, or their equivalent, of graduate grade, constitute the *minimum formal* year's work required for a master's degree. Five and ten are the maximum for one semester and the year respectively.

Unless otherwise specially permitted, every student must take each semester at least one course open to graduate students only (courses numbered 100 and upwards).

Undergraduate Courses Open to Graduate Students.—Courses to which sophomores are regularly admitted may not be taken for graduate credit, either major or minor.

Unless otherwise specified on the student's program by the department concerned, a course for graduates and advanced undergraduates, not open to students below senior grade and counting four or five hours of undergraduate credit, if taken by graduate students, will be treated as a unit course; when counting less than four hours of undergraduate credit, such a course, if taken by graduate students, will be treated as a half-unit course.

Unless otherwise specified on the student's program by the department concerned, a course the prerequisites of which are such as to make it possible for juniors to be admitted, if taken by a graduate student, is counted as a half-unit course or a quarter-unit course, according to the number of hours of undergraduate credit for which the course is given.

Transfer of Undergraduate Credit.—No credit earned during the undergraduate course may be transferred for graduate credit, unless such credit was earned in time additional to the time normally required for the bachelor's degree, in the second semester of senior year, and then only for minor subjects, and on petition.

If at the end of the first semester of his senior year a student has so far completed his work for the bachelor's degree that his program for the second semester is not full, he may elect one or more graduate courses. But such election must be in accordance with Graduate School rules and must be approved by the Dean.

Failures.—A graduate student who fails in his major subject cannot acquire his degree in the same year in which the failure occurred. No condition examinations are given graduate students.

Students on the Staff.—Assistants and others on the University staff who undertake to do graduate work are permitted to take an amount of work determined by the terms of their employment. Such a student, applicant for a master's degree, must ordinarily stay through at least two years. In no case will the doctor's degree be conferred on an applicant otherwise fit in less than four years if he is on the staff in any capacity. The exact amount of time required depends on the duties of his position.

The enrollment of a member of the staff is subject to the approval of the officer to whom he is responsible as a member of the staff and of the Dean of the Graduate School with reference to the amount of work to be taken. Before credit may be recorded for such graduate student at the end of a semester, the head of the department in which he is employed, or some one authorized by the head, must certify that the time given to graduate work by the student has not impaired the work for which he is paid by the University.

Residence and Work Done Elsewhere.—Continuous residence and study are required of all members of the Graduate School, unless they are granted leave of absence by the Dean, on recommendation of the professor in charge of their work, for the purpose of carrying on elsewhere studies or investigation in the line of work for their degrees.

The term "full year's work in residence" means work which requires all the student's working time through two semesters.

Students should note that all the work for the master's degree must be done in residence at the University, excepting in the case of members of the staff who have spent half of their time in study through a year at some other institution, and then do the rest of the work required during a year in residence here. Credit for work done elsewhere is not "transferred." The candidate is examined here on all the work required for the degree.

DEGREES

The Masters' Degrees.—The master's degree conferred depends on the character of the bachelor's degree. The usual practise is that A.M. shall follow A.B., that M.S. shall follow B.S. This practise may be departed from in cases where the undergraduate course of study of the candidate was of a kind for which some reputable institutions in this country give A.B., while others give B.S. Such departure from the regular practise is permitted only on individual petition duly approved.

Amount of Work Required.—Candidates for the degree of Master of Arts or Master of Science are required to do at least one full year's work in residence, including a thesis. By one year's work for the master's degree is meant from four to five unit courses each semester, or their equivalent. Whether a student is required to take more than four units a semester depends on the character of his work in college and in the first semester of his graduate course, but the completion of the required number of units is not of itself sufficient to insure the student's receiving his degree. A failure in any subject or an absence from examination in any subject may prevent the conferring of the degree: and, as already indicated, failure in any course in the major field precludes the conferring of the degree in that year. At least two units in courses numbered 100 and upwards are required.

Majors and Minors.—A candidate for a master's degree may do all his work in one subject, or he may select a major and one minor, or a major and two minors. A major or minor denotes the field of knowledge of a department, or such part thereof as constitutes a separate and independent division of that field. For a master's degree a major is at least half the work, or a minimum of four units, for one year. Less than one unit may not be counted as satisfying the requirements of a minor for a master's degree without the approval of the student's adviser and of the department concerned.

A program of studies for a first-year graduate student which is limited exclusively to the investigation of a single problem will not be approved.

Foreign Languages.—The ability to use one or more of the modern languages ordinarily studied in the undergraduate curriculum is expected of all candidates for the master's degree, and in some lines of study is required. On this matter students should consult the head of the department in which their major subjects lie.

Master's Thesis.—Each candidate for a master's degree is required to present a thesis on some subject approved by the professor in charge of his major work and the Executive Faculty of the Graduate School. The requirement of a thesis may be waived, however, on the recommendation of the head of the department in which the student is doing his major work, and with the approval of the Dean, provided application to waive the thesis is made at the beginning of the year. *In no case will permission to take the degree without the thesis be given by the Dean if applied for later than the latest date for the approval of thesis subjects, as shown by the calendar.* A student excused from writing a thesis must replace it with additional courses of instruction.

No one will be excused from writing a thesis unless one-half of his program of studies consists of courses numbered 100 and upwards.

The thesis required from a candidate for a master's degree ordinarily will demand one-fourth of the student's time and may not exceed one-third of it. The thesis must be typewritten, on "thesis paper," and the title-page must be printed. The thesis in its final form, together with a certificate of approval by the proper officer, must be left by the professor in charge at the Dean's office at the time set in the calendar. No article prepared for another use, or previously published, will be accepted as a thesis.

Graduate Study in the Summer.—Attendance on four summer sessions of nine weeks each, or one semester and two summer sessions of nine weeks each, is considered the equivalent of one year in residence. If in these sessions the required amount of work is properly done a master's degree may be earned in this way. The faculty is unwilling to accept summer-session work beyond the master's degree towards the doctor's degree, except in the case of a student who works in a summer session preceding or following a regular year's attendance at the University. In no case may the last year's work for the doctorate be done in disconnected summer sessions.

No course offered in the summer session may be taken for credit towards a higher degree unless it is specially described in the summer-session circular as accepted for that purpose.

Graduate students in the regular summer-session period are credited with only 8 weeks towards the fulfillment of the time requirement for the master's degree. It is necessary, therefore, for those who take work through four summer sessions for this degree to complete the residence requirement of thirty-six weeks by taking four additional weeks. This may be done at any summer session by continuing work after the close of the regular session, under the direction of the instructor with whom the student is working. The student is examined on the work thus done as on all other work, and must report his additional work to the Dean.

Graduate courses in medical science are offered in the summer quarter between June and September at the College of Medicine of the University of Illinois in Chicago. Circulars describing the courses offered and conditions of admission and work may be obtained from the Secretary, Congress and Honore Streets, Chicago.

Marine Biological Laboratories.—Students in zoology, candidates for the master's degree, part of whose necessary preparation is experience in a marine or fresh-water biological laboratory or station, are permitted to offer, in part fulfillment of the requirements for the master's degree, work done in such fresh-water or marine laboratory; provided that the student who wishes to have such work accepted make application before beginning work in such laboratory; that the selection of the laboratory at which he is to work has been approved by the faculty beforehand; that the time to be spent in such work be not less than six nor more than nine weeks in any one summer; that the instructors under whom the student is to work have been previously accepted by this faculty; that he submit to an examination here on the work done at such laboratory; and that a certificate of attendance from a proper officer of the laboratory or station be submitted and a full written report of the work done in the shape of notes, or otherwise, be required; and that the student shall be in residence here at the University for one full academic year during which he shall do the rest of the work necessary for his degree.

The marine biological laboratories which have thus far been approved as institutions at which students of this University may take work for record here are:

Marine Stations:

Marine Biological Laboratory, Woods Hole, Massachusetts; Harpswell Marine Laboratory, Casco Bay, Maine; Puget Sound Station, Friday Harbor, Washington;

Hopkins Marine Laboratory of Stanford University, Pacific Grove, California; Scripps Institute for Biological Research, University of California, LaJolla, California; Carnegie Institution Laboratory, Dry Tortugas, Florida; Bermuda Biological Station, Bermuda.

Fresh-Water Stations:

Douglas Lake Station, University of Michigan, Topinadee, Michigan; Ohio State University Laboratory, Cedar Point, Ohio; University of Wisconsin Lake Laboratory, Madison, Wisconsin.

MASTERS' DEGREES IN ENGINEERING

Two classes of second degrees are open to graduates of the College of Engineering, namely, academic and professional.

The academic second degree in engineering is Master of Science, following Bachelor of Science, in architecture, architectural engineering, civil engineering, electrical engineering, etc. This degree is conferred in accordance with the regulations described above for *academic work in residence only.*

The *professional* second degrees in engineering are as follows:

Master of Architecture, after B.S. in architecture.

Architectural Engineer, after B.S. in architectural engineering.

Civil Engineer, after B.S. in civil engineering or B.S. in municipal and sanitary engineering.

Electrical Engineer, after B.S. in electrical engineering.

Mechanical Engineer, after B.S. in mechanical engineering.

Engineer of Mines, Civil Engineer, Electrical Engineer, or Mechanical Engineer, after B.S. in mining or railway engineering, according to the course.

Professional degrees are conferred on two classes of candidates: (1) graduates of the College of Engineering of the University of Illinois who have been engaged in acceptable professional work away from the University for a period of not less than three years after receiving the degree of Bachelor of Science; (2) graduates of the University of Illinois, or of institutions of equal standing, who have been engaged in acceptable professional work in residence at the University for a period of not less than three years after receiving the degree of Bachelor of Science.

In "acceptable professional work" may be included contributions to technical literature, activity in professional societies, investigation of engineering problems, and the teaching of engineering subjects.

A candidate must declare his candidacy and file with the Dean of the College of Engineering, as chairman of the committee in charge, a detailed statement covering his professional study and experience, not later than the first Monday in November preceding the commencement at which he proposes to qualify. Prior to December 31 next succeeding, he must submit for approval an outline of his proposed thesis and he must file his completed thesis not later than April 1. If the statement of professional experience and study and the thesis are accepted, the candidate must present himself at commencement in order to receive the degree.

Candidates for professional engineering degrees who already hold the degree of Master of Science may qualify for the professional degree after two years of professional work.

A candidate for a professional engineering degree must pay the incidental fee of thirty dollars on being notified that his professional study and experience are accepted as qualifying him to enter as a candidate for the degree. No one will be enrolled as a candidate for the degree at the following commencement who does not pay his fee at this time. When a candidate for a professional engineering degree has once been accepted and paid his fee, he is eligible to receive the degree at any time within five years, without additional fee, on completion of the requirements; provided, however, that unless he completes the requirements within two years his name will be dropped from the list of candidates and in order to receive the degree within the five-year period he must register once more.

THE DEGREE OF DOCTOR OF PHILOSOPHY

The requirements for the degree of Doctor of Philosophy are a thoro mastery of a selected field of study, evidence of the power of independent investigation in this field, a broad knowledge of the wider field of study of which his major subject is a part, a general acquaintance with related fields of knowledge, and a mastery of all branches of study which are necessary to a full knowledge of the main subject. Each student who is seeking this degree is expected to choose for study and final examination a major subject, or field of study, and a first and second minor. The major subject is the field in which the student expects to become expert and an authority. The first minor must be a subject closely related to the major and may, under certain conditions and with proper approval, be a subdivision of the major field of study. The second minor should be chosen outside of the major field of study.

When a candidate chooses any subject as his major and a division of that subject as his minor, he is not permitted to choose as a second minor any division of work in that same department, except by vote of the Executive Faculty of the Graduate School.

For the doctor's degree no definite division of a student's time among major and minors can be made, to hold in all cases. In general the faculty approves an arrangement which, distributing the student's time through the required three years, divides it equally among his three subjects in his first year of graduate study; and in the proportion of two to one, as between his major and first minor, in the second year of graduate study (his second minor being finished and dropped at the end of the first year); and gives all his time to his major during his third year.

To put the matter in another way, a course of graduate grade (from among the "hundred" courses) meeting twice or three times a week, corresponding roughly to what is sometimes called a full course, or in our terminology a unit course, running through the year, should ordinarily be sufficient for a second minor; a similar course running through two years should ordinarily be sufficient for a first minor.

While "full-time work" in the first year of graduate study, leading usually to a master's degree, is at least eight units for the two semesters, full-time work after the first year is not reckoned in units. The student is simply required to devote all his time to his work. Nor is there any necessary correspondence between the number of courses taken and the number of units required in the first year or full-time work in any year. A first-year student might possibly secure all the credit necessary in two or three courses; and a second-year or third-year student might conceivably be devoting all his time to one course and his research or to his research alone.

The candidate's list of subjects must receive the approval of the head of the department in which he chooses his major work and of the Dean of the Graduate School.

Period of Study.—The *minimum* period of study required for securing the degree of Doctor of Philosophy is three years, during which the student is required to devote all his working time to his studies. The degree is conferred, however, not for residence during a certain period, but for scholarly attainments and power of investigation, as proved by thesis and examinations.

At least the first two or the last one of the three years required must be spent at this University.

Credit for work done in other universities is not "transferred." The candidate is examined here on the subjects offered by him for the advanced degree. However, his period of residence at another institution of proper grade may be accepted in fulfillment of the residence requirement of the University of Illinois, so far as it goes.

Preliminary Examination.—Towards the end of his second year of study, or, by special permission, at the beginning of his third year, the candidate for the degree must submit to a preliminary examination conducted by the members of the faculty with whom he is doing his principal work, in order to determine whether he will be accepted as a candidate for the degree in the following year. The examination is intended to test the student's knowledge of the fields of his major and minor subjects of study. It is partly oral, and may be wholly so.

Language Examination.—The candidate will be required to demonstrate his ability to read French and German and other languages needed for the prosecution of his work.

The examination in French and German is in charge of a committee of three, consisting of the head of the department in which the student is taking his major work, a member of the department of modern languages, and a member appointed by the Dean of the Graduate School; this test of proficiency in the use of French and German takes place at the time of the preliminary examination for admission to candidacy for the doctor's degree.

Final Examination.—On or before the last Monday in May of the year in which the candidate expects to come up for his degree, he must submit to a final examination. Besides the written examination set by the departments of the major and minor studies, the candidate must also take an oral examination, given by a committee appointed by the Dean. The oral examination is primarily on the research work of the student, as embodied in his thesis, but it is not confined to this. It extends to the whole field of the study of the candidate. It will not be confined to the courses which the candidate has attended in the University of Illinois only, if he has done part of the work elsewhere; nor even to the field covered by the courses specifically taken in this or other universities; but will be so conducted as to determine whether the candidate has a satisfactory grasp of his major subject as a whole, and a general acquaintance with the fields of knowledge represented by his course of study.

Before the candidate is admitted to the final examination and the defense of his thesis, he may be required to take any other examination, oral or written, that is thought proper by the various departments in which he has studied. If, after having passed his preliminary examination, he fails in the third year of his study to meet the expectations of the professors in charge of his work, or in any way fails to maintain the standard of scholarship and power of research expected of him, he may be refused admission to the final examination.

The final examination in the major and minor subjects may not be divided. The examination must be taken all at one time even tho it requires several sessions.

The above examinations are in addition to those in the courses for which the student is registered. These must be taken at the times for which they are set in the examination schedule.

Thesis.—The power of independent research must be shown by the production of a thesis on some topic connected with the major subject of study. The candidate is expected to defend his thesis or dissertation before the members of the faculty, or as many of them as may wish to question him about it, in connection with his final examination.

The subject of the thesis should be chosen not later than the end of the second year of study and must be submitted for formal approval by the faculty not later than the first Monday of November of the year when the degree is expected. Unless previously printed with proper authority, a typewritten copy of the complete thesis, *on thesis paper*[1], must be in the hands of the Dean not later than noon of the Saturday nearest the middle of May, for submission to the examining committee.

The doctor's thesis must be printed and one hundred copies deposited in the Library of the University by the candidate, not later than the first of June preceding the conferring of the degree. In form, the printed thesis must follow the "instructions for the preparation of masters' and doctors' theses," copies of which may be obtained at the Dean's office on application. If it is not printed by the first of June, the student must, not later than that date, deposit seventy-five dollars or a bond for that amount satisfactory to the Comptroller of the University and the Dean of the Graduate School. A member of the faculty of the University of Illinois will not be accepted as a guarantor on such a bond. If a bond is accepted, it must be replaced at the end of one year with a cash deposit. At the end of two years, if the thesis has not then been printed by the student, the University will print such part of it as it deems best.

The cash deposit made by the student who does not print his thesis by the end of the second year after his degree is conferred becomes the property of the University, to be used for the general purpose of printing theses.

Doctor's Degree in Engineering.—The degree of Doctor of Philosophy in Engineering is offered in certain lines of academic graduate work of a high scholastic type in engineering science that will attract students who wish to prepare themselves as teachers, investigators, and experts.

The general requirements for this degree, as to preliminary education, linguistic attainments, etc., are the same as in other lines.

The following lines of engineering science are open as majors:

Engineering mechanics
Hydraulic and sanitary engineering
Steam engineering
Electrical engineering
Heating and ventilation engineering
Railway engineering
Masonry construction and structural engineering
Coal-mining engineering

The first minor may be any of the above or one of the following fundamental sciences or an authorized combination of two of them:

Theoretical mechanics
Mathematics
Thermodynamics
Chemistry
Geology
Physics (Experimental or mathematical)
Zoology
Botany

The second minor should be in other than engineering subjects.

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[1] No other will be accepted by the Dean.

SCHOLARSHIPS AND FELLOWSHIPS

A number of scholarships and fellowships have been established by the Trustees of the University. To first-year graduate students of ability and promise there are open a number of scholarships with a stipend of $250 each and freedom from tuition, incidental, and laboratory fees. To second-year and third-year graduate students, that is, those who have had one or two years of graduate study, there are open fellowships with a stipend varying from $300 to $500, with freedom from the above-mentioned fees. The larger stipends are given only to students who are expected to take their degrees within the year. Each holder of a fellowship or scholarship must pay the matriculation fee of ten dollars, unless he holds a first degree from the University of Illinois, and also the diploma fee of five dollars on receiving his diploma.

Candidates for these scholarships and fellowships must be graduates of the University of Illinois, or of colleges or universities having equivalent requirements for bachelors' degrees.

Application must be made on blanks to be obtained from the Dean of the Graduate School. These application forms should be sent to the Dean of the Graduate School as early as possible in February of the academic year preceding that for which the fellowship is desired. No application will be considered if received later than March first, until after April fifteenth, the date when appointees from the first list of applicants must accept or refuse their appointments.

Persons appointed are notified on April first and must send the Secretary of the Board of Trustees notice of their acceptance or refusal by April fifteenth; and must agree that, if accepted, the appointment will not be resigned to take a similar one in any other institution during the year for which it is awarded.

Nominations to fellowships are made on the grounds of worthiness of character, scholastic attainments, and promise of success in the principal line of study or research to which the candidate proposes to devote himself. Scholarships and fellowships are not given to candidates who are over thirty years of age at the time when the appointment is to be made.

For second-year fellowships, adequate preparation in one foreign language, and for third-year fellowships, adequate preparation in both forcign languages, is required.

Scholarships and fellowships are good for one year, but may be renewed for a second or third year in special cases. An appointment as honorary fellow, without stipend, may be made as specified for paid fellowships in the case of any one who has shown distinguished merit in his work.

Research Graduate Assistants in the Engineering Experiment Station

The Engineering Experiment Station is devoted entirely to research. Its purposes are the study of problems of special importance to engineers and to manufacturing, railway, mining, and industrial interests, and the stimulation and elevation of engineering education.

Fourteen research graduate assistantships have been established in the Engineering Experiment Station. These graduate assistantships are open to graduates of approved technical schools and universities. There is a stipend of $500 a year for each. Applicants to whom these graduate assistantships are awarded are required to agree to hold them for two years, devoting one-half of their time to the work of the Engineering Experiment Station. At the expiration of this period, if all requirements have been met, the degree of Master of Science will be conferred.

Applications for these graduate assistantships should be made to the Director of the Engineering Experiment Station not later than February first. Candidates must present with their applications full information concerning themselves, including any written or published papers or results of investigation.

Staff Fellowship in Gaelic

Through its President, Hon. J. P. McGoorty, the Irish Fellowship Foundation of Chicago has offered the University the sum of one thousand dollars as an honorarium for a Fellow, whose duty it will be to pursue research in Irish language and literature at the University of Illinois. An additional sum of two hundred dollars was given for the traveling expenses of the appointee. To this fellowship the University has appointed the Rev. Andrew O'Kelleher, formerly of the department of Celtic in the University of Liverpool. The Fellow is now at the University and is pursuing his work. His researches will doubtless in time be gathered together and published as a contribution to scholarship in the field of Celtic language and literature.

THE GRADUATE CLUB

The Graduate Club is an unofficial organization of the graduate students and graduate faculty. Its purpose is to furnish an opportunity for those working in different departments to become acquainted with one another and thus counteract the tendency toward narrowness which intense specialization may sometimes induce.

THE ILLINOIS HISTORICAL SURVEY

The Illinois Historical Survey is a department of the Graduate School established in 1910 to conduct research in the history of the State of Illinois. The members of the staff, assisted by graduate students, are engaged in the production of scientific studies in Illinois history, and it is expected that the results of these labors will lay a solid basis for the interpretation of the State's past.

The following persons constitute the staff of the Survey for the year 1917-18: Clarence W. Alvord, Ph.D., Professor of History, Director; Ernest L. Bogart, Ph.D., Professor of Economics; John M. Mathews, Ph.D., Associate Professor of Political Science; Theodore C. Pease, Ph.D., Associate in History; Arthur C. Cole, Ph.D., Assistant Professor of History; Agnes Wright, A.B., Research Assistant.

GRADUATE WORK IN THE SUMMER SESSION

The Summer Session places emphasis on graduate courses leading to the master's degree. The departments related to high school teaching and to educational administration have been selected as the centers of this emphasis. An attempt is made to vary the graduate offerings from year to year so that advanced students each year may find acceptable work in their chosen fields.

The normal requirement for the master's degree is full work of graduate grade, satisfactorily completed, through one year of residence. This means a residence of thirty-six weeks at the University. Qualified graduate students may fulfill this residence requirement in four summer sessions of eight weeks each and an additional four weeks' study at the University under the direction of the person in charge of the major work. Thus a student, by working at the University for one week before or after each session under the direction of the professor in charge of his major subject, may earn the master's degree in four summers.

In certain cases it will be possible for the graduate student to complete the last fourth of his residence requirement under a leave of absence. This privilege may be granted in the event that the student is able to take advantage of opportunities for research and investigation that are not afforded in the University community. Superintendents, principals, and class-room teachers frequently find it possible to carry on investigations in connection with their school work. There are, for example, numerous problems of school administration and of teaching for which the public school itself forms the only available "laboratory." Where the investigation of such problems is prosecuted with the cooperation of a department of the University, it may be possible to count the work toward the master's degree.

THE LIBRARY SCHOOL

For a description of the *Library Building*, see page 56; for an account of the *libraries* themselves, see page 59; for the *collection in library economy*, see page 63; for *fees*, see page 110.

GENERAL STATEMENT

The Library School offers a two-year curriculum to students who wish to enter librarianship as a profession, and certain library courses to students in other schools and colleges of the University who may wish to elect them as a part of their course of training. The instruction in the first or junior year covers the generally accepted methods and practises in library work; students who complete this year's work are prepared to accept positions in library service. In the second or senior year emphasis is placed on historical and comparative methods of treatment; new subjects are introduced to give the student the necessary outlook and equipment for more responsible positions.

One or two years' training will not take the place of years of experience, but they will make the student more adaptable and his general library service more intelligent. The time spent in actual practise, under supervision, amounts to about three and one-half months, counting seven hours to a working day. Altho stress is laid on simplicity and economy, methods are taught to enable students to work in large libraries where bibliographic exactness is required. Emphasis is laid on the extension of the activities of the public library, and on the importance of cooperation between the library and the schools and other educational and social agencies.

A member of the senior class in any other school or college of the University may, with the approval of the Director of the Library School, elect any course for which he is prepared.

The school also offers to freshmen and sophomores a course on the use of the University library and the ordinary reference books.

ENTRANCE REQUIREMENTS

Admission to the Library School is conditioned on the presentation of credentials showing that the applicant holds a bachelor's degree in arts or science from the University of Illinois or has had other equivalent training. No entrance examinations are required.

Application blanks for admission may be secured from the Director of the School, and these, filled out, should be filed, together with such documentary material as the candidate may offer, showing qualifications for admission, generally not later than July 1. It is to the candidate's interest to present the application and certificates early, in order that the question of admission may be settled before he comes to Urbana.

RECOMMENDED PRELIMINARY CURRICULUM

Undergraduates who intend, on the completion of their college work, to apply for admission to the Library School, are requested to select their courses so as to conform in general to the following recommended program of studies preparatory to library work.

English literature, 10;[1] rhetoric, 6.
Latin, 8, in addition to four years of high school Latin.
German, 12, in addition to two years of high school German.
French, 8, in addition to two years of high school French.

German and French begun in college instead of in the high school should be continued for a longer period.

Medieval and Modern European history, 6; history of England, 6; history of the United States, 6.
Economics, 6; political science, 4; sociology, 6.
Philosophy, 4; general psychology, 4.
Zoology, 6; botany, 4; chemistry or physics, 6.

The total of this work is 102 semester hours, leaving the equivalent of one year of a four-year course free for work in other subjects or for more work in the subjects named.

ADVANCED STANDING

College graduates who have had approved library experience or who have attended other library schools may be accorded advanced standing by securing credit for some of the courses required for graduation. After satisfying all entrance requirements and after matriculation, the applicant for advanced standing may secure such credit either by examination or by transfer of credits from an approved institution offering courses in library economy. (See page 74).

SPECIAL STUDENTS

It is the practise of this School to admit as special students only those mature persons, who, tho unable to meet the formal requirements for entrance, are prepared for thoro and advanced work. Such persons must present evidence of possessing the information and ability to pursue profitably, as special students, the chosen subjects, and some substitute for the regular requirement for entrance, such as the completion of part of a college course, approved library or teaching experience, or foreign travel. Preference will be given to those already engaged in library work, especially in Illinois libraries. Students thus admitted are expected to take all of the curriculum prescribed for those who are candidates for the degree of Bachelor of Library Science.

PREPARATION FOR SPECIAL LIBRARIES

For the benefit of students who plan to work in special libraries, a modification of the senior course may be permitted. A student who has satisfactorily completed the work of the junior year may petition for such modification, provided he intends to work in a business, technical, agricultural, or other special library, and provided his undergraduate courses included a sufficient number in the field in which he expects to specialize. In such instances, the faculty may permit the student to substitute for certain of the Library School courses, such electives in the various colleges of the University as will fit the student for special library work in the subject selected.

LIBRARY VISITS AND FIELD WORK

Each year all the students in the School visit the libraries and certain of the book binderies, book stores, and printing establishments of either Chicago and vicinity or St. Louis and vicinity. During this visit, which occupies one week, the students are accompanied by members of the faculty.

The estimated expense of this visit is about $22 for each trip. Students are required to present a written report of the week's visit on their return to the University, as the work forms part of Library 22 and Library 26.

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[1] The figure after each subject denotes the minimum number of semester hours which the student should devote to that subject.

In order to assure a varied library experience, each student in the senior year is required to spend one month in an assigned library, usually a public library, working, as far as practicable, under the same conditions as a member of the staff of that library, but without compensation. Written and oral reports of the month of field work are required, as the work forms part of Library 26. The estimated expense for the month of field work is $43.

CURRICULUM

The curriculum is two years in length. For graduation a student must receive credit for all courses except those marked with an asterisk (*), which are elective. The degree of Bachelor of Library Science is conferred on a student who has completed the required work in the two years' curriculum, and has received credit in courses amounting to 62 hours.

JUNIOR YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Lib. Sc. 2a—Reference	3	Lib. Sc. 2b—Reference	3
Lib. Sc. 3a—Selection of Books	2	Lib. Sc. 3b—Selection of Books	2
Lib. Sc. 16—Order and Accession	2	Lib. Sc. 30—Practise	3
Lib. Sc. 17—Classification	3	Lib. Sc. 7—History of Libraries	2
Lib. Sc. 18—Cataloging	3	Lib. Sc. 19—Trade Bibliography	1
Lib. Sc. 23a—Library Administration	1	Lib. Sc. 21—Printing, Binding, Indexing	2
Lib. Sc. 20—Loan Department	1	Lib. Sc. 22—Library Extension	3
		Lib. Sc. 23b—Library Administration	1
Total	15	Total	17

SENIOR YEAR

Lib. Sc. 41a—Subject Bibliography	1	Lib. Sc. 41b—Subject Bibliography	1
*Lib. Sc. 8—Advanced Reference	2	Lib. Sc. 9—History of Books	2
Lib. Sc. 40a—Practise	3	Lib. Sc. 40b—Practise	3
Lib. Sc. 13a—Public Documents	2	*Lib. Sc. 13b—Public Documents	2
Lib. Sc. 15a—Seminar	2	Lib. Sc. 15b—Seminar	2
Lib. Sc. 24a—Selection of Books	2	Lib. Sc. 24b—Selection of Books	2
Lib. Sc. 26a—Library Administration	3	*Lib. Sc. 29—Advanced Classification	2
*Lib. Sc. 27—Bibliographical Institutions	1	Lib. Sc. 26b—Library Administration	3
		*Lib. Sc. 28—Practise	1 to 4
Total	16	Total	18 to 21

LIBRARY CLUB

Any member of the Library School faculty or of the staff of the University Library and any student in the Library School may become a member. Six meetings are held each year.

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[1] Semester hours. For definition, see page 243.

THE SCHOOL OF MUSIC

For *admission* to the School of Music, see the general statement of entrance requirements of the University, pages 67-83. For *fees*, see page 110. For the *faculty* of the School of Music and description of the *courses* in music, see under "Music" in the "Description of Courses," Part III.

GENERAL STATEMENT

The School of Music offers regular courses leading to the degree of Bachelor of Music.

Students who are not working for the degree in music may receive a statement from their instructors on completing not less than one year of college work.

Classes in ear training and sight singing meet twice each week. Music students are required to attend these classes.

Choral or orchestral work is required of all students who are taking courses in piano, voice, violin, or organ.

All students majoring in a practical subject are required to take Music 94 (Recital).

The instructors in the School of Music give recitals and lectures on musical subjects during the year.

The courses in the history of music and musical theory, as well as the work in the University Orchestra and the University Choral Society, may be taken by students in other departments without fee.

REQUIREMENTS FOR GRADUATION

Candidates for the degree of Bachelor of Music must offer credit for 130 semester hours, including the prescribed subjects named below, together with an acceptable thesis on a topic related to music.

All music students are expected to attend the concerts and recitals which are given under the auspices of the School of Music.

Public performance being part of the course of study in a practical subject, all students are required to participate in a program when sufficiently prepared.

Students, who by reason of deficient musical ability, inattention, or other valid reason, fail to make satisfactory progress, may be dropped from the classes.

CURRICULUM IN MUSIC

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Foreign language, French, German, or Italian	4	Foreign language, French, German, or Italian	4
Mus. 3—Harmony	2	Mus. 4—Harmony	2
Mus. 21a—Ear Training		Mus. 21b—Ear Training	
Mus. 42a, 52a, or 62a—Piano, Voice, or Violin	4	Mus. 42b, 52b, or 62b—Piano, Voice, or Violin	4
Mus. 46a, 56a, or 66a—Minor subject	2	Mus. 46b, 56b, or 66b—Minor subject	2
Rhet. 1[2]—Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes	3
Phys. Tr. 7a—Gymnasium (women)	1	Phys. Tr. 7b—Gymnasium (women)	1
Phys. Tr. 9—Hygiene (women)	1	Phys. Tr. 2—Gymnasium (men)	1
Phys. Tr. 1 and 1a—Gymnasium and Hygiene (men)	1	Mil. 2a—Military Drill (men)	½
Mil. 1a—Military Drill (men)	½	Mil. 2b—Military Theory (men)	½
Mil. 1b—Military Theory	½		
Total, Men	17	Total, Men	17
Total, Women	17	Total, Women	17

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[1] Semester hours. For definition, see page 243.

[2] Those students who show by examination a proficiency in composition sufficient to qualify them for Rhetoric 2 may be excused from Rhetoric 1. See page 73.

SECOND YEAR

Foreign language, French, German, or Italian	4	Foreign language, French, German, or Italian	4
Mus. 1—History of Music	2	Mus. 2—History of Music	2
Mus. 5—Advanced Harmony	3	Mus. 6—Advanced Harmony	3
Mus. 22a—Ear Training	1	Mus. 22b—Ear Training	1
Mus. 23a—Sight Singing		Mus. 23b—Sight Singing	
Mus. 43a, 53a, 63a, or 84—Piano, Voice, Violin, or Organ (Major Subject)	4	Mus. 43b, 53b, 63b, or 85—Piano, Voice, Violin, or Organ (Major Subject)	4
Mus. 46c, 56c, 66c, or 83c—Minor Subject	2	Mus. 46d, 56d, or 66d—Minor Subject	2
Mil. 3a—Military Drill (men)	½	Mil. 4a—Military Drill	½
Mil. 3b—Military Theory	½	Mil. 4b—Military Theory	½
Total, Men	17	Total, Men	17
Total, Women	16	Total, Women	16

THIRD YEAR

Educ. 1—Introduction to Education	4	Eng. 2—Survey of English Literature	4
Eng. 1—Survey of English Literature	4	Mus. 8—Counterpoint, Canon, and Fugue	3
Mus. 7—Counterpoint, Canon, and Fugue	3	Mus. 24b—Sight Singing	1
Mus. 24a—Sight Singing	1	Mus. 45b, 55b, or 65b—Piano, Voice, or Violin	4
Mus. 44a, 54a, 64a, or 86—Piano, Voice, Violin, or Organ (Major Subject)	4	Mus. 46f, 56f, or 66f—Minor Subject	2
Mus. 46e, 56e, or 66e—Minor Subject	2	Mus. 94a—Recital	1
Total	18	Total	15

FOURTH YEAR

Eng. 23—Introduction to Shakespeare	3	Mus. 10—General Theory	2
Mus. 9—General Theory	2	Mus. 12—Acoustics	1
Mus. 11—Acoustics	1	Mus. 27b—Ensemble	1
Mus. 27a—Ensemble	1	Mus. 45b, 55b, or 65b—Piano, Voice, or Violin	4
Mus. 45a, 55a, or 65a, Piano, Voice, or Violin	4	Mus. 46h, 56h, or 66h—Minor Subject	2
Mus. 46g, 56g, or 66g—Minor subject	2	Mus. 94b—Recital	1
Total	13	Total	11

In addition, to make up the prescribed total of 130 hours: Elective, for men, 1 hour, for women, 4 hours. This extra credit may be taken at any time; the election must be approved by the student's adviser.

Practical courses include regular attendance in orchestra and choral society unless a student is excused by the Director of the School of Music.

MUSICAL ORGANIZATIONS

The University Choral and Orchestral Society is conducted by the Director of the School of Music, with the assistance of the instructor of violin, and gives a series of concerts throughout the year. The orchestra meets for two hours' rehearsal once a week; it is open to all students who qualify for membership. The chorus meets once a week for rehearsal of choral works. Singers not connected with the University are admitted by examination.

The Military Band is conducted by the instructor in band instruments. Besides giving several concerts during the year, it furnishes music for regimental formations and ceremonies and other occasions as required by the President of the University. Membership is decided by competitive examinations. A second band is also conducted, in order that all students who play band instruments ordinarily well may have an opportunity to play in a band. Each full term of service in the band counts for one term of the required work in military science. After obtaining credit for four semesters' work those who are continued in the band for not less than one year are paid an amount equal to the incidental fees for the year. There is also a reserve band and trumpet and drum corps.

The University Choristers, the University Glee and Mandolin Clubs (men), and the University Women's Glee Club are also under the supervision of the School of Music.

THE SCHOOL OF EDUCATION

GENERAL STATEMENT

The School of Education was established in 1905 as an organization of the various activities of the University which are concerned with the professional preparation of teachers and supervisors for the public schools. The nucleus of the School is the department of education in the College of Liberal Arts and Sciences. The faculty of the School is made up of the members of this department and of other departments who offer courses intended for the preparation of high-school teachers. The building to be used as a laboratory for the School of Education and to include quarters for a training school of secondary grade is nearing completion.

THE DEPARTMENT OF EDUCATION

The department of Education includes four full professors, two lecturers, a principal of the training school, and several assistants. It offers courses in educational history, theory, and practise—see under Education in the General Description of Courses, Part III. Two of the courses (Education 1 and 10) are required of all students who wish to secure the official recommendation of the University for teaching positions in secondary schools—see "Committee on Appointment of Teachers," page 190. Credits earned in these courses are usually accepted by the State Examining Board in lieu of examination in pedagogy for county teachers' certificates; and these and other courses serve to prepare candidates for the examinations in professional subjects required for the State supervisory and high-school certificates—see "Certification of High School Teachers in Illinois," page 190.

GRADUATE WORK IN EDUCATION

Graduate work in education is offered to qualified students in the following fields: methods of teaching and elementary education (Professor Charters); vocational education (Professor Hill); secondary education (Professor Hollister); educational psychology, including mental tests and clinical psychology, health administration, and school hygiene (Professor Whipple).

The equipment of the department for graduate work comprises: (a) A library of some 20,000 volumes (besides pamphlets), including the Aron Library of 8,000 titles relating largely to European education in the sixteenth, seventeenth, and eighteenth centuries; a collection of documents representing educational development in the United States, including school reports and courses of study and of state and city systems; and a text-book library representing the development of elementary and secondary school texts used in American schools from the beginning of the nineteenth century; (b) an educational museum, containing exhibits of school furniture, apparatus, illustrative material, and representative work of pupils; (c) a laboratory of educational and clinical psychology equipped for mental and physical tests.

PUBLICATIONS OF THE SCHOOL OF EDUCATION

The School of Education publishes a series of bulletins comprising (a) reports of the annual High School Conference, the Conferences on Teachers' Institutes, and other meetings and conferences regarding public education held at the University, and (b) reports of investigations and studies by members of the instructional staff and students in the department.

The department of education is unofficially related through the editorial work of its members to the following journals: *The Journal of Educational Psychology* (Baltimore), edited by J. C. Bell, W. C. Bagley, C. E. Seashore, and G. M. Whipple; and *Educational Administration and Supervision* (Baltimore), edited by W. C. Bagley, L. D. Coffman, Alexander Inglis, George D. Strayer, David Snedden, and W. W. Charters.

COMMITTEE ON APPOINTMENT OF TEACHERS

The Committee on Appointment of Teachers recommends qualified graduates of the University for positions as teachers or supervisors in public schools, colleges, and technical schools in response to requests from the school authorities. The Director of the School of Education is chairman of the Committee, and the Secretary of the School is its chief executive officer.

The recommendations of the Committee are made under the following regulations of the University Senate.

1. The University Committee on Appointments is authorized to issue its recommendation, signed by the Committee as the agent of the University, in all cases in which it is satisfied with the student's scholarship and ability to teach. The Committee shall regard the scholarship requirements as met if, in addition to carrying the professional courses mentioned in the next paragraph, the student has passed with an average grade of B in the courses necessary to constitute a major in the principal subject which he wishes to teach, and in courses aggregating a minimum varying from six to twelve semester hours (according to subject, and at the discretion of the Committee) in each of the other subjects for which he wishes to be recommended. The committee shall, however, in each case secure the written opinion of the departments concerned in regard to the scholarship of the applicant, and shall view the evidence of scholarship as shown by the records in the light of this opinion; and if there appear to the Committee to be reasons which from their nature cannot be shown by mere records for questioning the scholastic ability of the student, the Committee may in its discretion withhold the recommendation.

2. A candidate must have successfully completed the following courses in the department of education:

a. An introductory course which shall aim (1) to acquaint the prospective teacher with the public-school system as it exists today in the United States, and (2) to present a brief outline of the principles of education. (A four-hour course.)

b. A course in the technics of teaching, accompanied by observation of class-room work in secondary schools, and including a discussion of class-management (routine and discipline), the elements of school hygiene, and the types of school exercises. (A three-hour course.)

3. The Director of the School of Education may, in his discretion, excuse a candidate from the professional courses outlined above, (1) if the candidate is a normal-school graduate or has taken equivalent courses in a normal school or in another college or university; or (2) if the candidate has had at least one year of successful teaching experience. If, at the time of registration with the Committee on Appointments, the candidate has not completed one of the required courses, but is enrolled at that time in the course, a Committee recommendation may be given with the approval of the instructor in charge of the course.

The courses mentioned in Section 2 are (a) Education 1, Introduction to Education (4 hours), and (b) Education 10, Observation and Technics of Teaching (3 hours). Either course may be taken in either semester.

CERTIFICATION OF HIGH-SCHOOL TEACHERS IN ILLINOIS

A student who expects to teach in the Illinois high schools should bear in mind that all teachers must be duly certificated. County high-school cretificates are granted upon examination by county superintendents, and State high-school certificates upon examination by the State Superintendent. For county high-school certificates issued without an examination the new certificating law makes the following provision:

> "At the option of the county superintendent, a high school certificate may be issued without examination to graduates of a recognized normal school, college, or university, who present within three years after graduation, certified credits in English, pedagogy and six high school subjects (chosen from a list published by the Examining Board) and accompanied by faculty recommendations of ability to teach in the high school." (Section 6.)

The educational courses required for the official recommendation of the University, Education 1 and 10, are commonly accepted as meeting the requirement in pedagogy.

State high-school certificates are granted under the following conditions:

"A four-year high school certificate valid in any high school in the State, for which the requirements shall be: (1) Graduation from a recognized college or university, or the completion of an equivalent preparation; (2) three years' successful teaching, two of which shall have been in the State on a first grade, a high school, or a supervisory county certificate; (3) a successful examination in English, educational psychology, and the principles and methods of teaching, and (4) the preparation of a thesis on one or more secondary school problems, the subject or subjects of which shall be selected from a list prescribed by the Superintendent of Public Instruction.

"[Note—Candidates who have had three years of successful experience in teaching, two of which were in Illinois under a first grade certificate and have exchanged the same for a county high school certificate under the new law, meet the requirements of No. 2.]" (Circular 72, State Department of Public Instruction.)

Education 1, 10, and 25 embody the materials usually covered by the State examinations in educational psychology and in methods of teaching.

CERTIFICATION OF SUPERINTENDENTS AND PRINCIPALS

The following are the requirements for certification in supervisory work:

"A four-year supervisory certificate valid for supervisory work and for teaching in any district in the State. The requirements for this certificate shall be: (1) Graduation from a recognized high school and from a recognized normal school, or an equivalent preparation; (2) three years' successful supervision, two of which shall have been in this State on a county supervisory certificate; (3) a successful examination in English, educational psychology, sociology, the history of education, and school organization, administration, and supervision, and (4) the preparation of a thesis on one or more problems of school administration, the subject or subjects of which shall be selected from a list prescribed by the Superintendent of Public Instruction.

"[Note—Candidates who have had three years of successful experience in teaching, two of which were in Illinois, under a first grade certificate, and have exchanged the same for a county supervisory certificate under the new law, meet the requirements of No. 2.]"

Life Certificates

"At the time of its expiration, upon evidence of successful teaching or supervision satisfactory to the Superintendent of Public Instruction, any four-year State certificate enumerated in this Act shall become valid and be endorsed for life. The Validity of State certificates now in force and those issued in accordance with this Act, shall be conditioned upon the good behavior of the holder." (Circular 72, State Department of Public Instruction.)

Education 1, 2, 4, 16, 20, and 25 embody the material usually covered by the examination (except in English) for the State supervisory certificate.

REQUIREMENTS OF THE NORTH CENTRAL ASSOCIATION

Students who anticipate teaching in high schools accredited to the North Central Association of Colleges and Secondary Schools should complete courses in education aggregating at least *eleven* semester hours. This requirement of the Association is effective for new teachers after 1915, but is not retroactive. Certain work offered outside the department of education, especially "teachers' courses," may be counted as part of the eleven-hour minimum.

THE SCHOOL OF RAILWAY ENGINEERING AND ADMINISTRATION

GENERAL STATEMENT

The School of Railway Engineering and Administration[1] has been established to prepare men for the technical and administrative departments of railroads. The work offered is arranged in five different curriculums, any one of which is designed to occupy four years' time. The curriculums are:

Railway Civil Engineering
Railway Electrical Engineering
Railway Mechanical Engineering
Railway Administration
Railway Transportation

The first three of these curriculums are administered by the College of Engineering, and a description of them appears with that of other curriculums offered by this College. Students are admitted to them under the same conditions as to other curriculums of the College of Engineering, and they have available for their use all of the library, drafting-room, and laboratory facilities which constitute the equipment of this College. The last two curriculums are administered by the College of Commerce and Business Administration; they are described in detail in connection with the other curriculums of this College. Students are admitted to them under the same conditions as to other curriculums of the College of Commerce and Business Administration.

It is the purpose of each of these curriculums to add to a foundation of general discipline and training specialized training for those who look forward to careers in railway service.

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[1] Owing to drafts on the staff of this school for war service the organization has been temporarily suspended.

MILITARY SCIENCE

Under the Act of Congress of June 3, 1916, there have been established at the University of Illinois three units of the Reserve Officers' Training Corps.

All male students admitted to the University of Illinois who are citizens of the United States and physically fit, except (1) students of the College of Law, (2) students over twenty-five years of age when entering the University, (3) students entering the University with junior standing, and (4) students who have had two years of military work at other institutions having a United States Army officer on duty as professor of military science, are enrolled during their freshman and sophomore years in the Reserve Officers' Training Corps, and are required during these two years to devote three periods a week of not less than one hour each to military science and training. Two of the three periods are devoted to drill practise, and one period to theoretical training.

At the end of the sophomore year a student who so elects, who is recommended by the President of the University and approved by the Professor of Military Science and Tactics, and who signs a form of written agreement prescribed by the Secretary of War, may be enrolled for two more years of service in the Reserve Officers' Training Corps. Such students are required to devote five hours a week to an advanced course in military science and training throughout their junior and senior years, and the completion of this work becomes for them a prerequisite for graduation. They are required also to attend two summer training camps of four weeks each.

One hour of credit toward graduation is given for each semester of work in military science, making four credits for the required work of the freshman and sophomore years, and eight credits in all for students who elect the advanced course of the junior and senior years.

A student who completes the elective advanced course is eligible for appointment by the President of the United States as a reserve officer of the United States Army for a period of ten years; and is eligible, also, for appointment as a temporary second lieutenant of the Regular Army, in time of peace, for purposes of instruction, with the allowances provided by law for that grade and pay at the rate of $100 a month for six months; on the expiration of this period of service with the Regular Army, he reverts to the status of a reserve officer.

The military instruction is under the charge of an officer of the United States Army. The course has special reference to the duties of officers of the line. A supply of arms and ammunition is furnished by the War Department, including 1892 U. S. magazine rifles (model 1898 and 1903), accouterments for infantry, and two pieces of field artillery.

The Cadet Brigade consists of two regiments of infantry (two headquarters companies, two machine gun companies, two supply companies, and 24 companies), a signal company, and an engineer company.

A special military scholarship, good for one year, is open to each student who attains the grade of commissioned officer; its value is paid to the holder at the close of the year. Appointments in the regiment are made on the nomination of the commandant of cadets confirmed by the Council of Administration.

A committee appointed by the President of the University examines candidates for nomination to the Governor of the State for commissions as brevet captains in the State militia. Candidates must be members of the senior class in full standing; must have completed the course of military studies; must have served two semesters as commissioned officers; and must be approved by the Council of Administration as having good reputations as scholars, officers, and gentlemen.

The uniform is the olive drab, woolen service, like that used by the United States Army. A deposit ($26.63) covering the price of the uniform is required from each student on registration. Other equipment costing $5.85 must be purchased at the same time.

The University military band is composed of students, and every full term of service therein is counted as one term of drill. Those who play in the band after having earned their four military credits necessary for graduation have their incidental fees remitted at the end of each year. Besides giving several concerts during the year, the band furnishes music for regimental formations and ceremonies and other occasions as required by the President of the University. Membership is decided by competitive examination.

PHYSICAL TRAINING

FOR MEN

The object of the work in this department is to preserve and improve the bodily health of the students by rational exercises and to teach proper inter-collegiate sports. Physical training is compulsory for all freshmen. Regular classes are formed in swimming and fencing and for drill on the various gymnasium appliances. Lectures are given on personal hygiene.

All competitive athletic games are under the direct supervision of the Director of Physical Training, and an examination is required to show that membership on any team will not cause injury, but will tend to improve the physical condition. No student whose class work is unsatisfactory is allowed to play on a University team.

For a description of the Men's Gymnasium, see page 56.

FOR WOMEN

The object of the work of this department is to preserve and improve the general health, carriage, and coordination of the young women of the University. Each student is given a physical examination; suitable exercise is prescribed and advice given.

The class work embraces corrective, hygienic, and recreative exercise, including free and light gymnastics, marching, simple steps, games, and Maypole. Tennis, hockey, basket-ball, volley-ball, German-ball, and quoits are played in season.

The gymnasium is open at certain hours and under suitable restrictions to all women of the University. The uniform consists of black serge bloomers, white cotton blouse, black tie, and gymnasium shoes.

The swimming pool is open daily, except Saturday, from 10 to 12 a. m., and from 2 to 5:30 p. m. The regulation swimming suit of one piece must be made of cotton jersey or other cotton material.

For a description of the Woman's Gymnasium, see under Woman's Building, page 57.

THE SUMMER SESSION

Edmund Janes James, Ph.D., LL.D., President of the University
Kendric Charles Babcock, Ph.D., LL.D., *Dean of the College of Liberal Arts and Sciences, and Director of the Summer Session*

GENERAL STATEMENT

The Summer Session of the University of Illinois for 1917 opened on June 18, and closed on August 10, making a term of *eight weeks*. The Summer Session of 1918 will open on June 17 and close on August 9.

The courses, as a rule, extend through the eight weeks. Students who wish to remain for only six weeks may obtain from the Director of the Session a certificate of such attendance, but university credit will not be given for six-weeks courses, except in Library Science and physical training for men.

Students may register for courses aggregating eight credit hours or less.

PURPOSE

The Summer Session is an organized integral part of the University year. Though its organization is not subdivided into colleges, numerous courses are offered by departments in the College of Liberal Arts and Sciences, Commerce, Agriculture, Engineering, and in the School of Music and the Library School. All courses may be counted toward a bachelor's or a master's degree, unless otherwise specified. By attending two Summer Sessions, a regular student may reduce the eight semesters to seven, thus securing his degree a half year earlier than he would otherwise have done.

One of the purposes of the Summer Session is to meet the needs of the teachers in the public schools who wish to spend a part of the summer vacation in serious study or investigation. Numerous courses are designed for high-school teachers, supervising officers, teachers of special subjects (agriculture, art, household science, manual training, music, etc.), and coaches of athletic teams; graduate courses are offered for college instructors, school supervisors, and principals who are working for advanced degrees.

ADMISSION

Admission in regular status to courses in the Summer Session for which university credit is granted is limited to students who could be regularly admitted to the college of the University (Liberal Arts and Sciences, Commerce and Business Administration, Engineering, or Agriculture) in which they would be registered in the regular session.

In order to meet in full the entrance requirements for any one of these colleges, a student must obtain credit, either by passing entrance examinations, or by presenting certificates of work completed in accredited secondary schools or other recognized schools, for 15 units of high-school work, or the equivalent, in subjects accepted for admission to the University, including in the case of each college certain subjects especially prescribed for admission to that college. (See pages 67-83.)

Admission to courses which give university credit, *as special students, not candidates for a degree*, may be granted to persons 21 years of age or over, subject to the general regulations of the University relating to special students.

REGISTRATION

Students will present themselves for registration on Monday, June 17, 1918.

FEES

A tuition fee of twelve dollars ($12) is required of all students in regular attendance at the Session. This entitles one to admission to regular courses, to all special lectures, and to one lesson per week of music of collegiate grade. An extra laboratory fee is charged in some courses for materials used. Any single course may be taken for a fee of six dollars ($6) and the laboratory fee, if there be one. A single course is understood to mean not more than two and one-half credit hours. Fees in addition to the tuition fee are required for special work in Music, except as just noted.

SCHOLARSHIPS

By ruling of the Board of Trustees of the University, all high school teachers in Illinois, and all other teachers in the State who are qualified to matriculate in the University as regular students, are entitled to Summer Session scholarships, exempting them from payment of the tuition fee. To matriculate regularly in the University, one must either pass the entrance examinations, or present a certificate from an accredited high school or other evidence of having completed the requisite amount of preparatory work.

The Board of Trustees has extended the scholarship privileges also to persons graduated from the Illinois State Normal Schools during the academic year preceding the session in which the scholarship is desired, and to persons (otherwise qualified) who have not been teachers, but who are under contract to teach in the State during the coming year.

Application blanks for scholarships may be obtained by addressing the Registrar.

GRADUATE WORK IN THE SUMMER SESSION

The Summer Session places emphasis on graduate courses leading to the master's degree. The departments related to high-school teaching and to educational administration have been selected as the centers of this emphasis. An attempt is made to vary the graduate offerings from year to year so that advanced students each year may find acceptable work in their chosen fields.

The normal requirement for the master's degree is full work of graduate grade, satisfactorily completed, through one year of residence. This means a residence of thirty-six weeks at the University. Qualified graduate students may fulfill this residence requirement in four summer sessions of eight weeks each and an additional four weeks' study at the University under the direction of the person in charge of the major work. Thus a student, by working at the University for one week before or after each session under the direction of the professor in charge of his major subject, may earn the master's degree in four summers.

In certain cases it will be possible for the graduate student to complete the last fourth of his residence requirement under a leave of absence. This privilege may be granted in the event that the student is able to take advantage of opportunities for research and investigation that are not afforded in the University community. Superintendents, principals, and class-room teachers frequently find it possible to carry on investigations in connection with their school work. There are, for example, numerous problems of school administration and of teaching for which the public school itself forms the only available "laboratory." Where the investigation of such problems is prosecuted with the cooperation of a department of the University, it may be possible to count the work toward the master's degree.

SUMMER COURSES IN LIBRARY TRAINING

Beginning in the summer of 1911, the Library School has conducted each year a summer session continuing for six weeks, to which were admitted only those actually *employed as librarians, or library assistants, or teacher-librarians, or under definite appointment to serve in such positions.* In 1915 the requirement of graduation from a high school was added. The curriculum was planned to meet especially the needs of workers in public libraries and in high school libraries of Illinois, and no tuition fee was charged students entering from this State; students entering from libraries in other states paid a tuition fee of $12. The work was under the general direction of the faculty of the Library School, and the instruction was given by members of the faculty, supplemented by lectures by neighboring librarians. No university credit has been given for the work.

The work occupied the whole time of the student. The number of lectures in each subject was approximately as follows: Cataloging; classification and book numbers, 30 hours; book selection, 12 hours; library administration and extension, 12 hours; reference work, 12 hours; work with children, 12 hours; loan systems, order, accession and shelf work, binding and repairing, 12 hours.

The Library courses are not offered in connection with the Summer Session, but as an independent undertaking of the Library School.

PLAYGROUND WORK AND COACHING

In addition to the regular gymnasium work, special courses in coaching high school athletics were offered under the general direction of George A. Huff, Director of Physical Training for Men. This work was added because of the increasing demand for trained men to direct high school athletics. A course in plays and games designed for teachers who coach high-school girls or supervise grammar school games, was offered by Miss Gertrude Moulton, formerly Director of the Woman's Gymnasium.

Courses of six weeks were offered in baseball coaching (Mr. Huff), football coaching (Mr. Zuppke), basketball coaching (Mr. Jones), and track coaching (Mr. Gill). These courses were particularly adapted to high school teachers and principals who are engaged for part of their time in coaching athletic teams. The courses were so arranged that a student might, if he desired, devote his entire program to this work.

DESCRIPTION OF COURSES

For a description of the courses offered in the Summer Session, see the General Description of Courses, beginning on page 241.

THE COLLEGE OF LAW

For the *faculty* of the College of Law and for the *courses* in law, see under "Law" in the Description of Courses, Part III; for *fees* and *expenses*, page 110.

GENERAL STATEMENT

It is the aim of the College of Law to fit its students as completely as possible to become lawyers. The mere imparting of knowledge of the law as it is must be subordinated to the more important end of developing the powers of the student and training him in proper habits of legal reasoning and argument. The case method of discussion of selected judicial opinions is employed, but not to the exclusion of other methods designed to stimulate thought and initiative, such as the independent briefing of legal problems.

Courses are conducted so as to give a training in the principles of the common law which constitutes the foundation for the practise of law in Illinois or in any other state in the Union. Students are required to consult frequently Illinois decisions and statutes, which are made the basis of discussion in class. In the Practise Court and the courses in Common Law Pleading and Illinois Procedure, especial attention is paid to the rules of pleading and practise in Illinois.

COURSES OFFERED

The College of Law offers two curriculums leading to the degree of Bachelor of Laws (LL.B.):

(1) A three-year curriculum in law, based on an entrance requirement of two years of college work.

(2) A four-year curriculum in law and non-legal electives, based on an entrance requirement of one year of college work.

THE THREE-YEAR CURRICULUM IN LAW

Admission

For admission to the three-year curriculum as a regular student an applicant must be matriculated and have 60 hours' credit in a college of this University; or have completed two full years of work as given at another college or university of recognized standing, as a matriculated student in such college or university; or have received by transfer 60 hours of university credit here.

Students from other institutions who may fall short of this requirement by not over five hours of credit, by transfer, may be admitted to the three-year curriculum as conditioned students; such conditions to be made up before the beginning of the student's second year in the College.

THE FOUR-YEAR CURRICULUM IN LAW AND NON-LEGAL ELECTIVES

Admission

For admission to the four-year curriculum as a regular student, an applicant must be matriculated and have 30 hours' credit in a college of this University, or its equivalent from another college or university of recognized standing. No conditions are permitted for admission to the four-year curriculum.

The degree of Bachelor of Laws is granted to students thus admitted who complete the 84 hours in law required in the three-year curriculum, and in addition thirty hours in other colleges, to be distributed over the four years.

Approximately two-thirds of law work and one-third in subjects other than law are to be taken during the first two years of the four-year curriculum.

SPECIAL STUDENTS

A student who is twenty-one years of age and is entitled to admission as a regular student to the freshman class of another college of this University, will be admitted as a special student in the College of Law. If he attains in the courses of the first year an average grade of C or over, he will be admitted to regular standing, and he may receive the degree of Bachelor of Laws if in all the courses he presents for the degree his average grade is C or more.

Students twenty-one years of age or over, who are not able to satisfy the requirements for admission stated above, but who have had a preliminary education which would entitle them to take the Illinois State Bar Examination, may, by permission of the faculty, be admitted without examination as special students, but no such student may be a candidate for a degree. In exceptional cases, other persons may, by permission of the faculty, be admitted as special students.

ADVANCED STANDING

After matriculation, an applicant may obtain advanced standing (1) by transfer of credits from another accredited law school upon presentation of a certificate of honorable dismissal and a certified record of work done; or (2) by examination taken at the time of entrance to the College of Law in first year subjects only.

SUGGESTED PRE-LEGAL CURRICULUM

The student entering the University with the intention of taking a law course is advised to register as a pre-legal student and to plan his preliminary college work with great care. He is invited to consult members of the law faculty in regard to his plans. In general the following schedule of studies is recommended by the faculty of the College of Law:

FIRST YEAR

FIRST SEMESTER	Hours[1]	SECOND SEMESTER	Hours[1]
Hist. 2a—English History	3	Hist. 2b—English History	3
Rhet. 1—Rhetoric and Themes	3	Rhet. 2—Rhetoric and Themes	3
Foreign Language	4	Foreign Language	4
Mathematics or Chemistry	5	Mathematics or Chemistry	5
or		*or*	
Acc'y 1a—Principles of Accounting	3	Acc'y 1b—Principles of Accounting	3
P. T. 1 and 1a—Gymnasium and Hygiene	1	P. T. 2—Gymnasium	1
Mil. 1a—Military Drill	½	Mil. 2a—Military Drill	½
Mil. 1b—Military Theory	½	Mil. 2b—Military Theory	½
Total	17 or 18	Total	17

SECOND YEAR

Econ. 1—Principles of Economics	5	Econ. 2—Money and Banking	3
Hist. 3a—History of the U. S.	3	Engl. 20—Chief English Writers	4
Philos. 1—Logic	3	Hist. 3b—History of the U. S.	3
Pol. Sci. 1—American National Government	3	Pol. Sci. 3—State and Local Government	3
Pub. Sp. 1—Oral Expression	2	Pub. Sp. 2—Extemporaneous Speaking	2
Mil. 3a—Military Drill	½	Mil. 4a—Military Drill	½
Mil. 3b—Military Theory	½	Mil. 4b—Military Theory	½
Total	17	Total	16

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[1] Semester hours. For definition, see page 243.

The courses in military, physical training, rhetoric, and foreign language are required of freshmen, and the second-year courses in military of sophomores, in the College of Liberal Arts and Sciences. With these exceptions the above list is intended to be suggestive rather than prescriptive.

English political and constitutional history is necessary for the understanding of much of the material of legal study. The practical usefulness of courses in public speaking and logic is obvious.

Students who may be interested in mathematics and the physical sciences may properly substitute additional courses in these subjects in the second year. The training in the deduction of principles and their application to the solution of problems which these studies afford is held to be of distinct advantage to prospective students of the law.

Still other suggestions as to suitable electives for pre-legal students may be obtained from the outline of the General Business Curriculum, page 131.

SIX-YEAR COMBINED COURSES

Ordinarily seven years are required to obtain the bachelor's degree in arts or science and the degree in law, but by a proper selection of studies one may take both degrees in six years. A student who has junior or senior standing in the College of Liberal Arts and Sciences or of Commerce may, subject to the approval of the Dean of the College of Law, elect not less than two of the first-year courses in law, amounting to at least five hours, and count credit therefor both toward the degree of Bachelor of Arts or Bachelor of Science and toward the degree of Bachelor of Laws (LL.B.) or Doctor of Law (J.D.). Students in other departments are not permitted to elect work in law until their junior year. Students registered in the College of Law may count toward the law degrees six hours of the work offered by the College of Liberal Arts and Sciences in jurisprudence, international law, and administrative law.

The attention of students is called also to the six-year combined curriculum in Commerce and Law (page 139).

Students in a combined six-year course will need to exercise some care and foresight in order to be able to comply with the requirements of the College of Liberal Arts and Sciences or the College of Commerce as to majors, minors, and group electives within three years.

A student who is a candidate for both the A.B. degree and the degree of LL.B., or J.D., must in each semester of his fourth year register both in the College of Law and in the College of Liberal Arts and Sciences.

PRACTISE COURT

The sessions of the Practise Court are held every Monday afternoon of the first semester for the third year class, and every Monday afternoon of the second semester for the second and third year classes together. The court is presided over by Judge O. A. Harker, who has had an experience of twenty-five years as a judge of the Circuit and Appellate Courts of Illinois. It is the purpose to have the proceedings of the Practise Court conform to proceedings in the various courts of the state. Students are trained in the preparation of pleadings, brief making, legal investigation and argument, the preparation of legal documents, and in the trial of cases, both civil and criminal.

THE LAW LIBRARY

The Law Library contains 22,000 volumes, including all the reports of the courts of last resort of all the states; the United States Supreme, Circuit, and District Court reports; the National Reporter System; the English reports; the Irish reports; the Scotch Appeal cases; the Current Canadian and Australian reports, and complete reports of several of the Canadian provinces; the statutes of the various states; several sets of selected cases, such as the American Reports, American State Reports, American Decisions, Lawyers' Reports Annotated, and American and English Cases annotated; American and English encyclopedias and digests; and a full collection of standard text books and legal periodicals.

THE DEGREE OF BACHELOR OF LAWS

The degree of Bachelor of Laws (LL.B.) is granted to regularly matriculated students who complete all the courses in the first-year list (see the outline of the curriculum below), the course in Equity (Law 12a-12b), in the second year, the one-hour course in Legal Ethics (Law 26) in the third year, and enough of the other courses to make 84 hours of credit. A student having grades below C in subjects aggregating more than twenty-five per cent of his entire work will not be graduated.

THE DEGREE OF DOCTOR OF LAW

The degree of Doctor of Law (J.D.) is granted to students who comply with the following conditions:

(1) Complete the work required for the degree of Bachelor of Laws.

(2) Secure a bachelor's degree in liberal arts and sciences at least two academic years prior to the completion of the courses for the degree of Doctor of Law.

(3) Obtain a minimum average grade of B in the College of Law.

(4) Present a thesis approved by the faculty of the College of Law.

The thesis may be returned to the writer for revision, or if unsatisfactory, it may be rejected altogether. If returned for revision it may be rejected after being revised. If accepted it will be filed in the Law Library, and may be published by the College of Law or by the University.

CERTIFICATE FOR ADMISSION TO THE ILLINOIS BAR EXAMINATION

Any student, altho not a candidate for a law degree, if he has taken at least ten hours a week for the period of three academic years, from among the courses offered, is entitled to a certificate thereof from the University, which certificate satisfies the requirements as to legal studies prescribed by the Supreme Court for applicants for admission to the bar.

CURRICULUM

The program of instruction in law is designed to occupy the student three full years. The most fundamental subjects are presented in the first year, the more specialized and practical topics in the second and third years. The work of the first year, thirty semester hours, is prescribed. The work of the second and third years is elective, except Equity (Law 12a-12b) in the second year and Legal Ethics (Law 26) in the third year. Students are required to elect courses averaging twenty-eight (28) hours for each of these years. The courses elected for either year must ordinarily be chosen from those grouped under the heading for that year. A few subjects are given only in alternate years. The election of courses by any student is in every case subject to the approval of the Dean.

First year students may not take more than 15 hours without special permission; except that public speaking may be added without such special permission.

Second-year and third-year students may not take more than 15 hours without special permission, unless their work for the preceding semester has averaged C or over. If their average has been C, 16 hours may be taken.

CURRICULUM IN LAW

FIRST YEAR

FIRST SEMESTER *Prescribed Subjects*	Hours[1]	SECOND SEMESTER *Prescribed Subjects*	Hours[1]
Law 1a—Contracts	4	Law 1b—Contracts	3
Law 2a—Torts	3	Law 2b—Torts	2
Law 6—Personal Property	3	Law 3—Real Property	3
Law 5—Criminal Law	3	Law 7—Domestic Relations	2
Law 37a—Brief Making	2	Law 11—Agency	3
		Law 37b—Brief Making	2
Total	15	Total	15

SECOND YEAR

Law 8—Evidence	4	Law 9—Sales	3
Law 12a—Equity	3	Law 12b—Equity	2
Law 15—Bills and Notes	3	Law 18—Wills	2
Law 4—Common Law Pleading	3	Law 10—Titles to Real Property	4
Law 13—Damages	2	Law 20—Equity Pleading	3
Law 32—Quasi-Contracts	2	Law 35b—Practise Court	1
Law 19—Partnership	2	Law 16—Trusts	3
Law 27—Future Interests in Property	3	Law 33—Restraint of Trade	2
Law 28—Insurance	2	Law 14—Carriers	2

THIRD YEAR

Law 15—Bills and Notes	2	Law 17—Private Corporations	4
Law 22—Constitutional Law	4	Law 16— Trusts	3
Law 4a—Illinois Procedure	3	Law 21—Suretyship	3
Law 31—Conflict of Laws	3	Law 23—Mortgages	2
Law 36a—Practise Court	1	Law 36b—Practise Court	1
Law 27—Future Interests in Property	3	Law 29—Office Practise	2
Law 19—Partnership	2	Law 33—Restraint of Trade	2
		Law 26—Legal Ethics	1

PRIZES

Eight scholarship prizes are open to matriculated students of the first and second years, to be awarded at the end of each year, four of $15 each semester and four of $7.50 each semester, available in discharge of incidental fees.

The American Law Book Company, of New York, offers an annual prize, consisting of a regular edition of CYC, including supplements, to be awarded to the senior making the best average during his senior year.

Callaghan & Company, law publishers, of Chicago, offer an annual prize, consisting of the Cyclopedic Law Dictionary, to be awarded to the member of the second-year class making the best average during his second year.

PRIVILEGES OF STUDENTS

The students of the College of Law may take, without extra fee, courses of study in other departments of the University, provided they secure the approval of the Dean of the College of Law. Especial attention is called to the courses in public speaking and debate, and to the courses in history, economics, and political science in the College of Liberal Arts and Sciences and the Graduate School.

Law students are entitled to library privileges in the general library as well as in the law library, and possess in general all the rights and privileges enjoyed by other students of the University, such as the use of the gymnasium, tennis courts, and golf links.

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[1] Semester hours. For definition, see page 243.

THE COLLEGE OF MEDICINE

BUILDINGS AND EQUIPMENT

The College building is located in the city block bounded by Harrison, Congress, Honore, and Lincoln streets, in Chicago. For description, see page 59.

CLINICAL FACILITIES

Dispensary

The Dispensary is divided into ten departments: medicine, surgery, pediatrics, orthopedics, laryngology, dermatology, ophthalmology, gynecology, neurology, and genito-urinary diseases. These departments occupy the first floor and part of the second floor of the College Building. The number of patients in 1916-17 was thirty-five thousand.

Opportunities are afforded the student to examine the cases under the guidance of instructors. As far as possible, the student is required to make laboratory examinations pertaining to his own cases. Such examinations as the Wassermann reaction are made by the instructors in the laboratory, but the student has every opportunity to follow these and to learn the technic involved.

Clinics

In addition to those in the dispensary more than 600 clinics in various hospitals are open to students. The great majority of diseases seen in the temperate zone are demonstrated, and most of the operations of surgery are performed in these clinics. Fourth-year students are required to examine and diagnose many cases, and under certain conditions may assist in operations.

The Cook County Hospital, the largest charity hospital in America, is located within half a block of the College. During the past year, it has cared for 50,000 patients. In this hospital is conducted much of the clinical instruction of the College. Medical appointments in this institution are made each year by the Civil Service Board. The internes, 64 in number, are selected each spring by competitive examination. Only graduates of medical colleges of Cook County are eligible for these examinations. The internes serve eighteen months.

The County Morgue is located in the hospital grounds, and daily post-mortems are held by the pathologists of the hospital.

The hospital tickets, costing $5.00 each, for sale at the office of the Warden, admit the holder to all clinics and autopsies and to all public operations and lectures.

The University Hospital is located opposite the College. The Directors of the hospital are members of the faculty of the College. Approximately forty per cent of the clinical instruction of the College is conducted in this institution. Bedside instruction is given, under certain conditions, to small groups of students. No student excepting those of the College were admitted to clinical instruction in the hospital during the year 1916-17. The selection of internes for this hospital is limited to graduates of the College.

Clinical instruction to students in small groups, and bedside instruction to those serving as externes, may be given in the following hospitals:

Augustana Hospital
St. Luke's Hospital
St. Joseph's Hospital
Michael Reese Hospital
St. Mary's Hospital
The Illinois Charitable Eye and Ear Infirmary

In addition to the above, there are more than sixty public and private hospitals in Chicago, each of which appoints from two to four internes annually.

THE QUINE LIBRARY

The library of the Colleges of Medicine and Dentistry is housed on the second floor of the medical building. It includes 18,383 bound volumes and a number of reprints and separates. Many of the departments of the three schools are supplied with working libraries. The collections of the library include the standard text books, works of reference, monographs, and journal files in the fields of medicine, dentistry, and pharmacy.

ADMISSION

The following entrance requirements of the College of Medicine became effective September 1, 1914, and applied in October, 1917, to students entering all classes.

I. Fifteen units[1] of high-school credit, including prescribed subjects as follows:

English	3 units
Algebra	1 unit
Plane geometry	1 unit
American history and civics	1 unit
German, French, Latin, or Greek	2 units
Electives	7 units
Total	15 units

II. Sixty semester hours[2] of college credit, including prescribed subjects as follows:

Physics	8 hours
Chemistry	8 hours
Biology	8 hours
German or French	6 hours
Electives	30 hours
Total	60 hours

NOTE.—Students who intend to take the examinations for license to practise in the State of New York must include in their sixty hours of college credit offered for admission, in addition to the six hours of French or German prescribed above, six hours in a second modern language, which may be English, French, or German.

Either the secondary or the collegiate requirements may be satisfied (a) *by certificate* or (b) *by examination.*

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[1] By a *unit* of high-school or academy work is meant a year's work in a single subject; it being understood that the school year shall be not less than 36 weeks in length, that classes shall recite 5 times a week, that the recitation period shall be not less than 40 minutes long, that in science subjects there shall be double periods twice a week, and that double time shall be given in subjects like drawing, manual training, and bookkeeping, in which little or no outside study is required. Since high-school students ordinarily take four subjects at a time throughout the four years of the high-school course, 15 units represent approximately four years of high-school work.

[2] By a *semester hour* of college credit is meant the work of a class meeting once a week for a semester of 18 weeks. Sixty semester hours represent ordinarily two years of college work.

Secondary credits will be accepted *by certificate* from the following sources:

(1) From high schools and academies in the State of Illinois which are accredited to the University of Illinois.

(2) From schools accredited by the North Central Association of Colleges and Secondary Schools.

(3) From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools.

(4) From high schools and academies registered by the Regents of the University of the State of New York.

(5) From schools approved by the New England College Entrance Certificate Board.

(6) From the state normal schools of Illinois and other normal schools having equal requirements for graduation.

Secondary credits may be made *by examination.*

(1) In the examinations conducted by the Registrar of the University of Illinois at the University in Urbana in January, July, and September of each year.

(2) In the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in September of each year.

(3) In the examinations conducted in June of each year by the College Entrance Examination Board.

(4) In the examinations conducted by the Regents of the University of the State of New York.

Collegiate credits will be accepted *by certificate* from recognized colleges which require for admission the completion of at least 14 units of high-school work in an accredited high school or the full equivalent thereof, and for graduation, in addition, four years of college work; or may be made *by examination* in the examinations conducted by the Registrar of the University of Illinois at the College of Medicine in September of each year. *Special arrangements must be made in advance with the Registrar for examinations in collegiate subjects.*

CONDITIONS

For the year beginning in October, 1917, conditions were permitted as follows: 6 hours in college French or German, or 8 hours in collegiate electives. No conditions were permitted in high-school subjects or in the prescribed college physics, chemistry, or biology.

ADMISSION OF SPECIAL STUDENTS

The general rule of the University with reference to special students will apply to the College of Medicine: Persons over twenty-one years of age, *not candidates for a degree,* may, on approval of the Dean, be admitted to classes for which they are prepared.

ADVANCED STANDING

The University will accept scholarship and time credits for work done in medical colleges having standards equal to those of the College of Medicine of the University of Illinois, in so far as this work coincides with or is the full equivalent of the courses prescribed by the University.

The applicant must present a letter of honorable dismissal from, and be eligible for promotion in, the college in which he has pursued his medical studies and must comply with the requirements for such promotion in the University of Illinois.

REGISTRATION

Students are required to register in the office of the Secretary immediately on the opening of the term for the work of that term, and credit will be allowed only in the branches in which they are registered. Students are registered in the order in which their fees are paid. Registration closed October 4.

COLLEGIATE YEAR

The collegiate year of 1917-18 consists of a session of thirty-six weeks, beginning October 1, 1917, and ending June 13, 1918, at which time degrees will be conferred.

The year is divided into two semesters of eighteen weeks each. Attendance on the full session is required in order to secure credit for a year's work, and attendance on four full sessions is required for graduation.

FEES AND EXPENSES

Fees[1]—New Schedule effective September 1, 1917

	First Year	Second Year	Third Year	Fourth Year
Matriculation[2]	$ 10.00	....	....	....
Registration	5.00	$ 5.00	$ 5.00	$ 5.00
General ticket	120.00	120.00	140.00	155.00
Laboratory	30.00	35.00	5.00	....
Diploma	....	....	....	5.00
	$165.00	$160.00	$150.00	$165.00

NOTE.—County Hospital ticket, $5.00. Maternity Fee, Chicago Lying-In Hospital, $15.00.

All fees are payable in advance. The entire matriculation fee and laboratory fee are due and must be paid during the registration days of the first semester, together with one-half of the general fee. The remainder of the general fee is due and payable on the registration days of the second semester.

Exceptions to this rule will be made only with the approval of the proper administrative officer.

There are no fees for special courses or quizzes. No members of the instructional staff are allowed to accept special fees.

Fees charged special students are based on the amount of work taken.

Alumni are admitted to all regular courses, without charge, except in laboratory work, in which a charge is made for material actually used.

Each student is required to have an individual microscope. Provision has been made whereby the student can purchase a microscope at reduced rates and pay for the same in annual installments. If a student be unable to purchase a microscope, the school will rent him one for his exclusive use at the rate of $2.50 to $4.00 per semester, depending on the equipment of the instrument.

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[1] All students taking Gross Anatomy are required to make a deposit of $10.00 for the use of a disarticulated skeleton. This deposit is returned to the student at the end of the year on the return of the material.

The Trustees reserve the right to change the fees at any time through publication in the annual announcement.

[2] Not required in the case of students who have previously matriculated in any other college of the University of Illinois.

Living Expenses

The expense of living in Chicago is less than in most other large cities. From thirty to forty dollars a month may be regarded as adequate for the ordinary living expenses of a student exclusive of books, clothing, railroad fare, and miscellaneous needs.

The expense for books varies between $25.00 and $50.00 a year. The instructors at the beginning of each course direct their students in regard to the purchase of text-books.

Scholarships

Through the generosity of the late Professor R. L. Rea a fund has been provided for four scholarships each year for worthy students. These scholarships are awarded annually by the officers of the Faculty.

For the session of 1917-18, they were granted to the following students:

George E. Clarke	Ruth Leonard
Raymond John Mercey	James E. Fetherston

The scholarship given by the Northwestern branch of the Woman's Foreign Missionary Society of the Methodist Episcopal Church was awarded to Ethel L. Keckler.

The scholarship given by the Congregational Woman's Board of Missions of the Interior, was awarded to Josephine Kennedy.

COURSES OFFERED

The student is offered his choice of the following courses:

1. A course of eight years—four years in the College of Liberal Arts and Sciences at Urbana, leading to the degree of Bachelor of Arts, followed by four years in the College of Medicine in Chicago, leading to the degree of Doctor of Medicine. This plan not only gives a liberal course of study and a medical course as well, but offers opportunity in the last two years of the medical course for specializing in chosen lines. This course of study is recommended to young men who can afford the time for it, and who are of the average age of graduation from the public high schools.
2. The four-year course as offered in the College of Medicine. Students entering this course offer two years of work in liberal arts and sciences for admission. On the completion of the first two years in the College of Medicine, these students receive the degree of Bachelor of Science; and on the completion of the four years in the College of Medicine they receive the degree of Doctor of Medicine. The two years of work in arts and sciences required for admission to the College of Medicine may be taken in the College of Liberal Arts and Sciences at Urbana.

REQUIREMENTS FOR GRADUATION

A candidate for graduation from the College of Medicine must meet the following requirements:

1. He must be at least twenty-one years of age.
2. He must have presented acceptable evidence of good moral character.
3. He must have paid all indebtedness to the college.
4. He must have completed a prescribed curriculum of the College of Medicine, comprising four years, of thirty-six weeks each, of work in medical subjects. Students admitted to advanced standing from other medical schools will not be given full time credit for any year of less than thirty-two weeks of actual work. The candidate must obtain satisfactory credits in all required subjects and pass his final examinations in accordance with the rules laid down by the faculty. The last year of work must have been taken in the University of Illinois College of Medicine.

5. Persons matriculating as first-year medical students for the year beginning October 1, 1917, or thereafter, after completing satisfactorily the four-year curriculum referred to above (in paragraph 4) must complete satisfactorily a hospital course of not less than twelve months' duration in a hospital approved by the faculty of the College of Medicine before receiving the diploma of Doctor of Medicine.

In order to be eligible for an interneship in an approved hospital in Illinois a candidate must pass the regular examination of the Illinois State Board of Health and receive from that Board a "limited license," authorizing him "to practise medicine or surgery in a hospital approved by the Illinois State Board of Health and in no other place whatsoever in this state, said limited license to remain in force and effect for a period not exceeding eighteen months from date of issue of same." (Schedule of Minimum Requirements for Medical Colleges in good standing with the Illinois State Board of Health as amended January 27, 1917.)

The diploma for the degree of Doctor of Medicine will be issued on the presentation of satisfactory evidence that the hospital year has been acceptably completed.

The rules of the Illinois State Board of Health make the following provision for the issuance of the permanent license:

"At the expiration of the limited license and surrender of same, or upon the completion of the twelve months hospital course and the surrender of the limited license, and upon presentation of satisfactory evidence that the hospital course has been completed within eighteen months subsequent to the date of completion of the fifth year of the medical course, and further that the candidate presents a diploma of graduation by the medical college, school, or institution in which he or she completed the fifth year of the medical course, the State Board of Health may then issue to the holder of said temporary or limited license a regular permanent certificate, without further examination or fee, provided that all other requirements prescribed by the Act regulating the practise of Medicine in the State of Illinois and by the rules of the Illinois State Board of Health relating thereto have been satisfactorily complied with."

GENERAL PLAN OF INSTRUCTION

The course of study extends over four years. During the first two years the work is, in the main, confined to the sciences fundamental to practical medicine, and the time of the student is largely devoted to laboratory work; during the first year, this consists of work in anatomy, chemistry, embryology, histology, and physiology. During the second year the study of anatomy and physiology is continued, and in addition the student takes up bacteriology, laboratory diagnosis, operative surgery, pathology, materia medica, pharmacology, therapeutics, and hygiene.

During the third and fourth years the time is largely devoted to the various clinical branches, emphasis being given to practical instruction in dispensary and hospital clinics.

Students are prohibited from doing work that interferes in *any* way with the fulfillment of the requirements of the curriculum. Unofficial clinical work may not be substituted for the official clinical requirements of the curriculum.

Optional Work

Optional courses supplementary to the required work of the regular curriculum are offered in many departments. Students may be permitted to register for such courses, after completing the work of the first year, with the consent of the committee. No credit toward the degree in medicine is allowed for this work.

Grades

The passing grade in each subject is 70. A grade from 60 to 70 constitutes a "condition." A conditioned student may have one re-examination. A mark below 60 or the failure to remove a "condition" by re-examination constitutes a "failure," and the subject must be repeated in course. The University reserves the right to drop students at any time on account of poor scholarship.

Examinations

General examinations are held in all subjects at the end of each semester during the week set apart for this purpose. Absences from these examinations count as failures unless they occur for satisfactory reasons, in which case the student may be examined at the discretion of the instructor.

Examinations for the removal of conditions in the work of the first three years are held during the week preceding the opening of the next collegiate year. For subjects presented in the first semester of the fourth year, re-examinations are held not later than two weeks from the end of that semester.

Promotion

A student who has any failure standing against him shall not be advanced to the next year without the permission of the committee on promotion.

Students who fail in subjects given in the first semester of the fourth year totaling more than 48 hours will not be admitted to candidacy for graduation in that collegiate year, but must repeat the subject the following year. No student may be a candidate for graduation in medicine who has conditions in subjects amounting to more than 96 hours.

No student having grades below 75 in subjects aggregating twenty-five per cent of his entire work in the junior college may be a candidate for the degree of Bachelor of Science.

Reports

Semester reports on scholarship and attendance are mailed to all students as soon as possible after the end of each semester.

DESCRIPTION OF COURSES IN MEDICINE[1]

ANATOMY, HISTOLOGY, EMBRYOLOGY

ALBERT CHAUNCEY EYCLESHYMER, B.S., M.D., Ph.D., *Professor and Head of the Department*
VICTOR EMANUEL EMMEL, M.S., Ph.D., *Assistant Professor*
ROY LEE MOODIE, A.B., Ph.D., *Assistant Professor*
WALTER SCOTT ADKINS, A.B., *Instructor*
ARTHUR REUBEN COOPER, B.S., Ph.D., *Instructor*
THOMAS BYRD MAGATH, Ph.B., M.S., Ph.D., *Instructor*
JOHN WOOD MACARTHUR, A.M., *Instructor*
THOMAS SMITH JONES, B.F.A., *Artist*
WILLARD CAMERON SHEPARD, *Artist*
LOUIS N BOELIO, *Technician*
HANS BUCH, *Technician*
ADOLPH HAMMER, *Director of Plastic Studio*

General Statement

The laboratories for gross anatomy comprise two dissecting rooms and a number of smaller rooms for embalming, storing, and prosecting. A plastic studio, a branch of the Hammer Studio of Munich, is situated on the sixth floor adjacent to the dissecting room and is available for anatomical reconstruction work and the use of models for teaching purposes. The laboratories for histology and embryology, together with the offices and research laboratories, are situated on the third and fourth floors of the Medical Building. The equipment includes apparatus for embalming, sectioning, macerating, corroding, and digesting; microtomes, microscopes, paraffin ovens, drawing apparatus, chemicals, glassware, and Grübler stains. A small museum contains special dissections, osteological preparations, and models; sets of histological, neurological, and embryological slides; charts, lantern slides, and other teaching accessories. The departmental library contains the standard texts and about two thousand five hundred special monographs. All the English, German, and French anatomical journals are received. The Crerar Library is readily accessible and makes it possible to consult practically the whole literature of anatomy, biology, and zoology.

Required Courses—First Year

22. **Embryology.**—Ovogenesis and spermatogenesis, maturation, ovulation and its relation to menstruation, fertilization, segmentation, gastrulation, formation, and significance of germinal layers; formation of foetal envelopes and placenta; organs, and systems of organs; congenital malformations. Lectures and recitations; 2: laboratory; 2 two-hour periods. *II* (*first half.*)

Professor EYCLESHYMER, Mr. MACARTHUR, and assistants

23. **Cytology, Histology, and Microscopic Anatomy.**—Animal cells; modified cells in blood and lymph, epithelial, connective, muscular, and nervous tissues, and their relationships in the body. Lectures and recitations; 3: laboratory; 3 three-hour periods. *I.* Professor EYCLESHYMER, Mr. MACARTHUR, and assistants

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[1] The Arabic numerals preceding the captions indicate the number of the courses. Unless otherwise specifically stated, the Arabic numerals following the descriptions of courses indicate the number of one-hour periods. The Roman numerals *I* and *II* indicate first and second semesters, respectively.

26. **Neurology.**—The gross and microscopic anatomy of the brain, spinal cord, and organs of special sense. Lectures and recitations; 2: laboratory; 2 two-hour periods. *II* (*second half.*) Laboratory work, two periods of two hours each per week, *II* (*first half*). Professor EYCLESHYMER, Mr. MACARTHUR, and assistants

27-28. **Systematic Anatomy.**—Complete dissection of the human body: (1) Upper and lower extremities, (2) thorax and abdomen, (3) the head and neck. Functional and topographical relationships; structural variation. Lectures, recitations, and laboratory; 3 three-hour periods. *I*, *II*.
Assistant Professor EMMEL, Dr. MAGATH, and assistants

Required Courses—Second Year

31. **Topographical Anatomy.**—Topography and relations of the various regions, systems, and organs of the body. Lectures and recitations; 2: laboratory; 2 three-hour periods. *I*. Assistant Professor MOODIE, Mr. ADKINS, and assistants

Applied and Surgical Anatomy.—(See department of surgery.)

Optional Courses

50. **Microscopical Technic.**—Preparation of objects; injecting blood vessels and lymphatics; maceration, digestion, and corrosion; decalcification, fixation of tissues, embedding, sectioning, staining, and mounting. Mr. BOELIO

53. **Medical Illustrating.**—Drawing, including perspective; values and their adaptation in the representation of medical subjects; normal and pathological specimens, both gross and microscopic; media adapted for representing certain conditions and structures, and for special methods of reproduction, such as line work, half tone, and lithography. Mr. JONES

56. **Embryology and Histogenesis.**—The structural changes in the principal tissues and their cellular elements during growth; changes in the structure of cells during senescence. Professor EYCLESHYMER

59. **Haematology.**—The blood and blood-forming organs: cytological structure, histogenesis, functional correlations, and current haematological problems.
Assistant Professor EMMEL

Courses Preparatory to Specialization

(Special Fee)

62. a. **The Eye.**
 b. **The Ear.**
 c. **Mouth, Nose, and Throat.**
 d. **The Thorax and Abdomen.**
 e. **The Genito-Urinary System.**
 f. **Pelvic Anatomy.**
 g. **The Extremities**, especially the joints and their mechanism.
 h. **The Brain and Spinal Cord.**

Research.—Physicians who desire to do research and students who have had three years of university training are invited to begin research work in this department. A reading knowledge of French and German is essential.

65-66. **Seminar.**—Critical reviews of recent anatomical literature; preparation of bibliographies and of scientific papers for publication. Presentation and discussion of the results of investigations.

Courses for Graduates

101. Histogenesis.—The structural changes in tissues and their elements, which are directly correlated with normal processes, such as growth, activity, rest, fatigue, senility. *One unit.* Professor EYCLESHYMER, Assistant Professor EMMEL, Assistant Professor MOODIE

103. Individual Research in Embryology and Histogenesis.—*One or two units.* Professor EYCLESHYMER, Assistant Professor EMMEL, Assistant Professor MOODIE

HYGIENE AND MEDICAL JURISPRUDENCE

——— ——— ———, *Professor and Head of the Department of Hygiene*
ELMER DEWITT BROTHERS, M.S., LL.B., *Lecturer in Medical Jurisprudence*
MATTHEW MILLS, LL.B., *Alternate Lecturer in Medical Jurisprudence*

Required Course—Second Year

2. Public Hygiene.—General etiology, immunity, contagious diseases, epidemiology, and preventive medicine; organization of health departments and the work of divisions of the same; vital statistics, inspection of schools and factories; sanitation; food supply and control; public welfare. Lectures; 2. *II.* ———

Required Course—Third Year

6. Medical Jurisprudence.—Lectures. 1. *II.* Mr. BROTHERS

Required Course—Fourth Year

10. Practical Hygiene.—Visits to public institutions and plants. Laboratory and conferences; 1 three-hour period. *II* (*eight weeks*). ———

DERMATOLOGY

——— ——— ———, *Assistant Professor and Acting Head of the Department*
PHILIP FRANK SHAFFNER, B.S., M.D., *Associate*
FRANCIS EUGENE SENEAR, A.B., M.D., *Instructor*

Required Courses—Fourth Year

1. Practise.—Illustrated. 2. *I* or *II.* Dr. SHAFFNER, Dr. SENEAR

5. Clinic.—College. 1. *I* or *II.* Dr. SHAFFNER, Dr. SENEAR

9-10. Clinic.—College Dispensary. The class is divided into six sections. 3. *I, II* (*three weeks*). Dr. SHAFFNER, Dr. SENEAR

Optional Course

53. Pathology and Bacteriology of the Skin.—Limited to six students. Dr. SHAFFNER

MEDICINE

FREDERICK TICE, M.D., *Professor and Head of the Department*

DIVISION OF INTERNAL MEDICINE

FREDERICK TICE, M.D., *Professor*
MAURICE LOUIS GOODKIND, M.D., *Professor of Clinical Medicine*
JOSEPH MCINTYRE PATTON, M.D., *Professor of Clinical Medicine*
FRANK SMITHIES, M.D., *Associate Professor of Medicine*
EDWARD LOUIS HEINTZ, Ph.G., M.D., *Assistant Professor of Medicine and Clinical Medicine*

Maurice Lewison, M.D., *Assistant Professor of Physical Diagnosis*
Arthur Richard Elliott, M.D., *Assistant Professor*
Robert Mosser, Ph.G., M.D., *Associate in Clinical Medicine*
Ernest Sisson Moore, Ph.B., M.D., *Associate in Clinical Medicine*
Frank Chauvet, M.D., *Associate in Physical Diagnosis*
George John Lorch, Ph.G., M.D., *Instructor*
Robert Wilson Morris, A.B., M.D., *Instructor*
Waldemar Eberhardt, B.S., M.D., *Instructor*
Walter Bradford Metcalf, M.D., *Instructor in Clinical Medicine*
Fred Raymond Crooks, M.D., *Instructor*
Franklin S Wilson, Ph.G., M.D., *Instructor in Clinical Medicine*
Robert Ludwick Furby, M.D., *Instructor*
Clarence James McMullen, M.D., *Assistant*

Required Course—Second Year

2a-2b. Physical Diagnosis.—(a) Lectures; 1. *II.* (b) Practical drill on normal subjects; given to small sections of the class. One two-hour period. *II.*
Assistant Professor Lewison, Dr. Chauvet

Required Courses—Third Year

9. Practise.—Infectious diseases, except tuberculosis; the intoxications; diseases of metabolism and the ductless glands. Conferences and recitations. 4. *I, II.*
Assistant Professor Heintz, Dr. Lorch, Dr. Crooks, Dr. Furby, Dr. Burke

13. Clinic.—Selected topics—in the amphitheater of the Cook County Hospital. One two-hour period. *I* or *II.* Dr. Chauvet

15. Clinic.—Selected topics—in the amphitheater of the University Hospital. One two-hour period. *I* or *II.* Assistant Professor Heintz

23. Physical Diagnosis Clinic.—Given to small groups, using the patients in the tuberculosis wards of the Cook County Hospital. 1. *I.*
Assistant Professor Lewison, Dr. Chauvet

27-28. Clinic.—Dispensary. Practical work on out-patients. Practically every variety of disease of an ambulatory nature common to the temperate zone may be seen here. In sections, 3 two-hour periods. *I, II* (*three weeks*).
Dr. Mosser, Dr. Moore, Dr. Metcalf, Dr. Wilson

Required Courses—Fourth Year

31-32. Practise.—Diseases of the alimentary tract, liver, pancreas, and peritoneum; heart and lungs; kidney and blood. Lectures illustrated by pathological specimens, charts, and lantern slides; conferences; 6. *I;* 3. *II.*

Lectures, Professor Tice. Conferences and recitations, Dr. Eberhardt, Dr. McMullen

35. Clinic.—St. Luke's Hospital. Gastro-intestinal, cardio-vascular, and renal diseases. Diagnostic analysis. Collateral reading. One two-hour period. *I* or *II.* Assistant Professor Elliott

37-38. Clinic.—Selected topics; in the amphitheater of the Cook County Hospital. One two-hour period. *I* or *II.* Professor Patton

39. Clinic.—Selected topics; in the amphitheater of the Cook County Hospital. One two-hour period. *I* or *II.* Professor Tice

45a. Clinic.—Clinical lectures and practical work to small groups of students at the Michael Reese Hospital. 1 (*four weeks*). *I* or *II.* Professor Goodkind

47-48. Seminar.—Work in cooperation with the departments of surgery and obstetrics. The student receives 48 hours' credit, 16 in each department, altho the work is done only in one department. The entire class is divided into three groups, and each of these again into five sub-groups. During the first semester, the groups meet informally, and abstracts are prepared and submitted for criticism. During the second semester, each group is assigned one hour in which to present its work before the entire class. Professor TICE and assistants

DIVISION OF PEDIATRICS

JULIUS HAYES HESS, M.D., *Professor of Pediatrics and Clinical Pediatrics, and Head of the Division*
HENRY EUGENE IRISH, M.D., *Associate*
EDWARD KENT ARMSTRONG, M.D., *Associate*
MAURICE LAMM BLATT, M.D., *Associate*
ABRAHAM LEVINSON, M.D., *Instructor*
LESTER EDWARD BOWER, M.D., *Instructor*
JAMES JOSEPH LEACH, M.D., *Assistant*
CONRAD GEORGE APPELLE, M.D., *Assistant*
EDWIN JUDGE BARNETT, M.D., *Assistant*

Required Courses—Third Year

1. Practise and Clinic.—Nutrition and nutritional disturbances in infancy. Lectures; clinical conferences; 1. *I.* Professor HESS

4. Practise.—Recitations. 1. *II.*
Dr. IRISH, Dr. ARMSTRONG, Dr. BLATT, Dr. BOWER

7. Clinic.—Cook County Hospital. Physical diagnosis and demonstration of cases. 1. In groups; 2. *I* or *II* (*four weeks*). Dr. ARMSTRONG

Required Courses—Fourth Year

11. Clinics.—(a) Michael Reese Hospital. In groups; 1. *I* or *II* (*four weeks*). Professor HESS

(b) University Hospital. In groups; 1. *I* or *II* (*four weeks*). Dr. IRISH

(c) Cook County Hospital. Contagious diseases. In groups; 1. *I* or *II* (*four weeks*). Dr. BLATT

15-16. Clinic.—Dispensary. In sections; 3 two-hour periods. *I, II* (*three weeks*).
Dr. BLATT, Dr. LEVINSON, Dr. BOWER, Dr. LEACH, Dr. APPELLE, Dr. BARNETT

19. Clinic.—Cook County Hospital. One two-hour period. *I* or *II.*
Professor HESS

DIVISION OF NEUROLOGY

LEE HARRISON METTLER, A.M., M.D., *Professor of Neurology and Clinical Neurology and Head of the Division*
EDWARD FRANKLIN LEONARD, M.D., *Assistant Professor*

Required Courses—Fourth Year

3-4. Clinic and Practise.—Clinico-didactic lectures and recitations. 2. *I, II.*
Professor METTLER, Assistant Professor LEONARD

7-8. Clinic.—Dispensary. Examination and diagnosis. In sections; 3 two-hour periods. *I, II* (*three weeks*).
Assistant Professor LEONARD, Assistant Professor ROYER, Dr. RYDIN

DIVISION OF PSYCHIATRY

H DOUGLAS SINGER, M.D., M.R.C.P., *Associate Professor and Head of the Division*

Required Courses—Fourth Year

4. Practise.—Lectures and quizzes; 1, *II* (*eight weeks*).
Associate Professor SINGER

7. Clinic.—Psychopathic Hospital of Cook County. To small sections; 1. *I* or *II*. Associate Professor SINGER

DIVISION OF ROENTGENOLOGY

ADOLPH HARTUNG, M.D., *Instructor*

Required Courses—Fourth Year

4. Practise and Demonstration.—College. The use of the X-ray in medicine and surgery. To small sections; 1. *II* (*four weeks*). Dr. HARTUNG

DIVISION OF HISTORY OF MEDICINE

BERNARD JOHN CIGRAND, M.S., D.D.S., *Lecturer*

Optional Course—Fourth Year

51. History of Medicine.—Lectures; 1. *I* or *II*. Dr. CIGRAND

OBSTETRICS AND GYNECOLOGY

CHARLES SUMNER BACON, Ph.B., M.D., *Professor of Obstetrics and Head of the Department*

DIVISION OF OBSTETRICS

CHARLES SUMNER BACON, Ph.B., M.D., *Professor of Obstetrics and Clinical Obstetrics*
RACHELLE S YARROS, M.D., *Associate Professor of Obstetrics and Clinical Obstetrics*
CECIL VON BACHELLE, M.S., M.D., *Assistant Professor of Obstetrics and Clinical Obstetrics*
OTTO HERMAN ROHRLACK, Ph.G., M.D., *Assistant Professor of Obstetrics and Clinical Obstetrics*
ANNIE ESTHER BARRON-HARRISON, M.D., *Instructor*
RICHARD CHARLES STEFFAN, M.D., *Instructor*
JOHN WILLIAM BIRK, M.D., *Instructor*
CHARLES NEWBERGER, B.S., M.D., *Instructor*
WALTER CHARLES HAMMOND, M.D., *Instructor*
EDWARD MARTIN HEACOCK, M.D., *Instructor*
FREDERICK HOWARD FALLS, A.B., M.D., M.S., *Instructor*
JAMES HUBERT SKILES, A.B., M.D., *Instructor*

Required Courses—Third Year

5-6. Physiology of Pregnancy, Labor, the Puerperium, and the New Born Infant.—Lectures; recitations; 2. *I*, *II*. Laboratory. To small groups, 1 two-hour period. *I* or *II* (*four weeks*).
Associate Professor YARROS, Dr. BIRK, Dr. NEWBERGER, Dr. FALLS

9. Clinic.—University and Cook County Hospitals. Instruction at bedside and in the out-patient department. In groups. 6. *I* or *II* (*two weeks*).
Professor BACON, Assistant Professor ROHRLACK, Dr. BARRON-HARRISON, Dr. FALLS

12. Clinic.—University Hospital. In groups. Delivery of six parturients.

Required Courses—Fourth Year

15-16. Pathology of Pregnancy, Labor, and the Puerperium.—Lectures; recitations; 3. *I*.

Professor Bacon, Assistant Professor Rohrlack, Dr. Beck, Dr. Newberger, Dr. Heacock, Dr. Hammond, Dr. Falls

(a) Pathology of the genital tract with special reference to obstetrical pathology. To small groups; 1 two-hour period. *I* or *II* (*four weeks*). Dr. Falls

(b) Manikin work. To small groups; 1 two-hour period. *I* or *II* (*eight weeks*). Assistant Professor Bachelle, Dr. Steffen

19. Clinic.—University Hospital. To small groups, 6. *I* or *II* (*two weeks*). Twelve one-hour periods.

Professor Bacon, Assistant Professor Rohrlack, Dr. Barron-Harrison, Dr. Falls

22. Clinic.—University Hospital. Demonstrations; recitations, 1. *I* or *II*. Professor Bacon

25. Clinic.—University Hospital. To small groups. The delivery of six parturients.

26. Clinic.—Chicago Lying-In Hospital and Dispensary. Residence, two weeks; at least six cases.

47-48. Seminar.—Work done in cooperation with the departments of medicine and surgery. For this work the student receives 48 hours credit, 16 in each department, altho the work is done only in one department. The purpose is to give the student a working knowledge of the medical literature, and to acquaint him with the methods of looking up the work which has been done on any special subject. During the first semester the groups will meet informally, and abstracts will be prepared and submitted for criticism. During the second semester each group will be assigned one hour in which to present its work before the entire class. Professor Bacon and assistants

Optional Course

51. Pathology.—For qualified students in either the third or the fourth year. Dr. Falls

DIVISION OF GYNECOLOGY

——— ——— ———, *Professor of Gynecology and Clinical Gynecology and Head of the Division*

John Michael Lang, M.D., *Assistant Professor of Clinical Gynecology*

Egan Walter Fischmann, M.D., *Instructor*

Albert John Schoenberg, M.D., *Instructor*

Wesley John Woolston, M.D., *Instructor*

Mathilda Osborne Lichner, B.S., M.D., *Assistant*

Lee A Juhnke, M.D., *Assistant*

Required Courses—Fourth Year

3. Practise.—Recitations; lantern slide demonstrations; exhibition of fresh and preserved pathological tissue; illustrations by charts and models. An occasional hour devoted to operative work. 2. *I*.

Assistant Professor Lang, Dr. Fischmann, Dr. Schoenberg

7. Clinic.—Cook County Hospital. Diagnosis, prognosis, and treatment of typical and atypical cases. Cases preliminary to operation; post-operative progress; pathological tissues. 1 two-hour period. *I* or *II*. Dr. Woolston

15-16. Clinics.— Dispensary. Examinations, cases, and reports. 3. *I*, *II* (*three weeks*). Assistant Professor Lang, Dr. Fischmann, Dr. Lichner

OPHTHALMOLOGY

Edward Vale Lapham Brown, B.S., M.D., *Professor of Clinical Ophthalmology and Head of the Department*
Andy M Carr, A.B., M.D., *Instructor*
Margaret Heath, *Refractionist*

Required Course—Fourth Year

3-4. Clinic and Practise.—Dispensary. Diagnosis and treatment of the common diseases of the eye and such minor operations as general practitioners may be expected to perform. The last two weeks given in the eye ward of the Cook County Hospital. 3. *I, II* (*eight weeks*). Professor Brown and assistants

PATHOLOGY AND BACTERIOLOGY

David John Davis, B.S., M.D., Ph.D., *Professor and Head of the Department*
——— ——— ———, *Assistant Professor*
Josiah John Moore, B.S., M.D., M.S., *Associate*
Thomas Harris Boughton, M.D., M.S., *Associate*
Charles Henry Manlove, B.S., M.D., *Associate*
Frederick Howard Falls, A.B., M.D., M.S., *Instructor*
Harry B Colver, B.S., M.D., *Instructor*
Amy Weedon, *Technician*
Esther Voss, *Technician*
Beulah M Smith, R.N., *Laboratory Assistant*

Required Course—Second Year

11. General Bacteriology and Protozoology.—Pathogenic bacteria and protozoa. Immunity. Lectures; demonstrations; 3. *I*, laboratory; 2 three-hour periods. *I*. Professor Davis, Dr. Moore, Dr. Falls, and assistants

Required Course—Second Year

17a-18. General Pathology and Pathological Histology.—General pathology; gross and microscopic study of fresh and preserved pathological material. Lectures; recitations; demonstrations; 2. *I* (*eight weeks*), *II*; laboratory, 3 two-hour periods. *I* (*eight weeks*), *II*. Dr. Moore, Dr. Boughton, and assistants

Required Course—Second Year

22. Clinical Pathology.—Microscopic, bacteriologic, and chemical examination of blood, urine, sputum, faeces, stomach contents, exudates, etc. 8. *II* (*eight weeks*). Dr. Culver, Dr. Falls

Required Courses—Third Year

26. Special Pathology.—Gross and microscopic examination of organs, postmortem bacteriology, and experimental pathology. Two two-hour periods. *II*. Professor Davis, Dr. Culver, and assistants

30. Autopsies.—Cook County Hospital. Sixteen autopsies. One two-hour period. *II*.

Optional Courses

50. Advanced Work and Research in Bacteriology.—Limited to properly qualified students. Professor Davis

51. Advanced Work in Special Diagnostic Laboratory Methods.—Limited to a few qualified students. Dr. Moore

55. Diagnosis of Tumors.—Open to students who have had courses in general and special pathology. *I.* Dr. Boughton

Courses for Graduates

101. Advanced Pathogenesis.—Etiology and pathogenesis of certain diseases; lower animals in the transmission of human disease. *One unit.* Professor Davis

105. Individual Research.—*One or two units.* Professor Davis

MATERIA MEDICA, PHARMACOLOGY AND THERAPEUTICS

Hugh Alister McGuigan, B.S., Ph.D., M.D., *Professor*
Benjamin Lee Eicher, Ph.B., Ph.C., *Assistant in Pharmacy*
Viggo Jensen, B.A., *Graduate Assistant in Pharmacology*
Seymour J Cohen, B.S., *Graduate Assistant in Pharmacology*
Emry G Hyatt, *Student Assistant in Pharmacology*
Florence Layton Rumry, *Technician in Pharmacology*

Required Courses—Second Year

5. Materia Medica and Pharmacy.—Prescription writing. Lectures; recitations; 2; *I.* Laboratory; and demonstrations; 1 two-hour period; *I.* Professor McGuigan, Mr. Eicher

10. Pharmacology and Materia Medica.—Pharmacodynamics; chemistry of drugs. Lectures; recitations; 4; *II.* Laboratory; 2 three-hour periods; *II.* Professor McGuigan and assistants

Required Course—Third Year

17. General Therapeutics.—2; *I.* Professor McGuigan

Optional Course

51. Research.—The laboratory is open at all times for those qualified to engage in research work. Professor McGuigan

PHYSIOLOGY AND PHYSIOLOGICAL CHEMISTRY

George Peter Dreyer, A.B., Ph.D., *Professor and Head of the Department*
William Henry Welker, A.C., Ph.D., *Assistant Professor of Physiological Chemistry*
Clayton Sidney Smith, B.S., M.S., Ph.D., *Associate in Physiological Chemistry*
Alfred Erwin Livingston, B.S., M.S., Ph.D., *Associate in Physiology*
J Lucien Morris, B.S., A.M., Ph.D., *Associate in Physiological Chemistry*
Howard E Curl, A.B., M.D., *Instructor in Physiology*
James Tobias Groot, *Assistant in Physiology*
Josephine Kennedy, A.B., *Student Assistant in Physiological Chemistry*
Hubbard Prather Saunders, A.B., *Student Assistant in Physiology*
Philip Allen Ohlson, Ph.G., *Technician in Physiological Chemistry*
Irwin Meyer Schwartz, *Technician in Physiology*

Required Courses—First Year

20. Physiology.—Blood and lymph, muscle and nerve, circulation, and respiration. Lectures; recitations; demonstrations; 3: laboratory, 2 three-hour periods. *II.* Professor Dreyer and assistants

21. Organic Chemistry.—Biological chemistry; fats, proteins, and carbohydrates. Lectures; demonstrations; conferences; 2: laboratory, 2 three-hour periods. *I.*
Dr. SMITH, Dr. MORRIS, Miss KENNEDY, and assistants

24. Physiological Chemistry and Toxicology.—Lectures; demonstrations; conferences; 2: laboratory, 2 three-hour periods. *II.*

Assistant Professor WELKER, Dr. SMITH, Dr. MORRIS, Miss KENNEDY, and assistants

Prerequisite: Course 21 or its equivalent.

Required Course—Second Year

25. Physiology.—Digestion; secretion; metabolism; the special senses; the central nervous system. Lectures; recitations; demonstrations; 4: laboratory; 1 four-hour period. *I.* Professor DREYER and assistants

Optional Courses

51. Advanced Laboratory Work.—Physiological demonstration and research; graphic methods.

53. Quantitative Urinary Analysis.—Lecture, one hour a week; laboratory, six hours a week. *I.* Assistant Professor WELKER, Dr. SMITH

54. Sanitary Chemistry.—Water and sewage analysis; purification. Lecture, one hour a week; laboratory, six hours a week. *II.* Assistant Professor WELKER

59. Food Analysis.—Composition, adulteration, preservation. Lecture, one hour a week; laboratory, six hours a week. *I.* Dr. MORRIS

Research.—The laboratories are open to persons with the requisite scientific training for the conduct of original investigations under the direction of the members of the staff.

63-64. Seminar.—The members of the teaching staff and all advanced workers in the department meet weekly to discuss results of recent researches in physiology and biological chemistry.

Prerequisites for optional courses. In physiology courses 20 and 23, and in chemistry courses 21 and 24.

Courses for Graduates

103. Advanced Biological Chemistry.—Biochemical methods of research; biological colloids; enzyme action; metabolism. *One or two units.*
Assistant Professor WELKER

107. Biochemical Research.—*One or two units.* Assistant Professor WELKER

SURGERY

CHARLES DAVISON, A.M., M.D., *Professor and Head of the Department*

DIVISION OF GENERAL SURGERY

CHARLES DAVISON, A.M., M.D., *Professor of Surgery*
ALBERT JOHN OCHSNER, B.S., M.D., *Professor of Surgery and Clinical Surgery*
ALBERT EDWARD HALSTEAD, M.D., *Professor of Surgery and Clinical Surgery*
CHARLES EDWARD HUMISTON, M.D., *Associate Professor of Clinical Surgery*
NELSON MORTIMER PERCY, M.D., *Associate Professor of Clinical Surgery*
GEORGE FARNSWORTH THOMPSON, B.S., M.D., *Assistant Professor of Surgery and Clinical Surgery*
FREDERICK GEORGE DYAS, M.D., *Assistant Professor of Surgery and Clinical Surgery*
FRANK DONALD MOORE, M.D., *Assistant Professor of Surgery and Clinical Surgery*

JOHN ROSS HARGER, B.S., M.D., *Associate in Surgery and Minor Surgery*
CHARLES HERBERT PHIFER, M.D., *Instructor*
HENRY LESTER BAKER, M.D., *Instructor*
GEORGE LUTHER DAVENPORT, M.D., *Instructor*
ARRIE BAMBERGER, M.D., *Instructor in Surgery and Minor Surgery*
RAYMOND MCNEALY, M.D., *Instructor*
OSCAR EUGENE NADEAU, B.S., M.D., *Instructor in Surgery*
KARL ALBERT MEYER, M.D., *Instructor*
GEORGE WASHINGTON POST, B.S., A.M., M.D., *Assistant in Clinical Surgery*
ROBERT EMMET FLANNERY, M.D., *Assistant in Clinical Surgery*
MAX MEYEROVITZ, M.D., *Assistant in Clinical Surgery*
LYNDON HARRIS, M.D., *Assistant in Clinical Surgery*

Required Courses—Third Year

3-4. Practise.—Surgery and surgical pathology. Conferences; recitations. In sections; two one-hour periods; *I, II.*
Dr. PHIFER, Dr. BAKER, Dr. DAVENPORT, Dr. MCNEALY, Dr. NADEAU

7-8. Clinic.—Dispensary. Diagnosis, bandaging, surgical dressings and appliances. Three two-hour periods. *I, II (three weeks).*
Dr. HARGER, Dr. BAMBERGER, Dr. POST, Dr. HARRIS

9. Clinic.—Cook County Hospital. One two-hour period. *I* or *II.*
Assistant Professor THOMPSON

11. Clinic.—Cook County Hospital. One two-hour period. *I* or *II.*
Associate Professor HUMISTON, Dr. KARL MEYER

19. Anesthetics.—Practical demonstrations to individual students in the administration of anesthetics at Cook County Hospital. Conferences; recitations. To small sections; *I, II* (*four weeks*). Dr. KARL MEYER

Required Courses—Fourth Year

23-24. Practise.—Regional surgery. Conferences; recitations. In sections; 2. *I, II.*

Assistant Professor THOMPSON, Assistant professor DYAS, Assistant Professor MOORE, Dr. HARGER

29. Clinic.—University Hospital. One two-hour period. *I* or *II.*
Professor DAVISON, Assistant Professor MOORE, Dr. MEYEROVITZ

31. Clinic.—St. Mary's or Augustana Hospital. One two-hour period. *I* or *II.*
Professor OCHSNER, Associate Professor PERCY, Dr. FLANNERY

33. Clinic.—St. Luke's Hospital. One two-hour period. *I* or *II.*
Professor HALSTEAD

35. Clinic.—Cook County Hospital. One two-hour period. *I* or *II.*
Assistant Professor DYAS

37a. Clinic.—Cook County Hospital. Bedside conference in surgical diagnosis. 1. *I* or *II.* Professor DAVISON, Dr. KARL MEYER

37b. Clinic.—Cook County Hospital. *Individual Bedside Instruction in Surgical Diagnosis.* Record writing, symptoms, physical examination, roentgenogram interpretation, laboratory examination of materials from the patient secured in the ward, operating room, or morgue. One two-hour period. *I* or *II.*
Dr. KARL MEYER and assistants

41. Surgical Pathology.—Laboratory. In sections; 2. *I* or *II* (*eight weeks*).
Dr. NADEAU

43-44. **Surgical Seminar.**—Work done in cooperation with the departments of medicine and obstetrics. For this work the student receives 48 hours credit, 16 in each department, altho the work is done in one department only. The purpose is to give the student a working knowledge of the medical literature, and to acquaint him with the methods of looking up the work which has been done on any special subject. During the first semester, the groups will meet only informally, and abstracts will be prepared and submitted for criticism. During the second semester, each group will be assigned one hour in which to present its work before the entire class. Professor DAVISON and assistants

DIVISION OF ORTHOPEDIC SURGERY

EDWIN WARNER RYERSON, M.D., *Professor and Head of the Division*
CHARLES MEYER JACOBS, M.D., *Associate Professor of Clinical Surgery (Orthopedic)*

Required Courses—Third Year

3. **Practise.**—1; *I.* Professor RYERSON

7. **Clinic.**—University Hospital or Home for Destitute Crippled Children. 1; *I* or *II.* Professor RYERSON

11. **Clinic.**—Cook County Hospital. 1; *I* or *II.* Associate Professor JACOBS

15-16. **Clinic.**—Dispensary. In sections; 3 two-hour periods. *I, II (three weeks).* Professor RYERSON and assistants

DIVISION OF GENITO-URINARY SURGERY

CHARLES MORGAN MCKENNA, M.D., *Assistant Professor*
HARRY JEROME SMEJKAL, M.D., *Instructor*
JOHN PATRICK O'NEIL, M.D., *Instructor*
HARRY CULVER, B.S., M.D., *Instructor*

Required Courses—Third Year

3. **Practise.**—Conferences; recitations. In sections; 1; *I.*
Assistant Professor MCKENNA, Dr. SMEJKAL, Dr. CULVER

7-8. **Clinic.**—Dispensary. In sections; 3 two-hour periods. *I, II (three weeks).* Assistant Professor MCKENNA, Dr. SMEJKAL, Dr. O'NEIL

Required Courses—Fourth Year

11. **Clinic.**—Cook County Hospital. Individual instruction in the diagnosis of genito-urinary diseases, including cystoscopy, catherization of the ureters, interpretation of roentgenograms and of chemical and microscopical urinalyses. In sections; 2 two-hour periods. *I* or *II (three weeks).* Dr. CULVER

14. **Clinic.**—St. Joseph's Hospital. In sections; 1 two-hour period. *II (four weeks).* Assistant Professor MCKENNA

DIVISION OF OPERATIVE SURGERY

ARCHIE JAMES GRAHAM, B.S., M.D., *Instructor*

Required Course—Second Year

4. **Operative Surgery.**—Operative surgery on the cadaver and on animals. In small sections; 2; *II.* Dr. GRAHAM

DIVISION OF LARYNGOLOGY, RHINOLOGY, AND OTOLOGY

NORVAL PIERCE, M.D., *Professor and Head of the Division*
JOSEPH C BECK, M.D., *Associate Professor*
JOHN ALGERNON CAVANAUGH, M.D., *Associate*
EUGENE BIRMINGHAM, M.D., *Instructor*
EDWARD F GARRAGHAN, M.D., *Instructor*
WALTER H THEOBALD, B.S., M.D., *Instructor*
FRANCIS J CONROY, M.D., *Instructor*

Required Courses—Third Year

3. Practise.—The surgical anatomy, physiology, and pathology of the ear. 1. *I* or *II* (*six weeks*). Professor PIERCE

7. Clinic.—Illinois Eye and Ear Infirmary. Diseases of the ear. In sections; 1. *I* or *II* (*four weeks*). Professor PIERCE

11. Practise.—The diseases of the throat and nose. 1. *I* or *II*. Associate Professor BECK

15. Clinic.—University Hospital. Diseases of the nose and throat. 1. *I* or *II* (*eight weeks*). Associate Professor BECK

17. Clinic.—Cook County Hospital. Diseases of the nose and throat. Associate Professor BECK

19-20. Clinic.—Dispensary. In sections; 3. *I*, *II* (*three weeks*).

Associate Professor BECK, Dr. CAVANAUGH, Dr. BIRMINGHAM, Dr. GARRAGHAN, Dr. THEOBALD, Dr. NOVAK

Optional Course

51. Laryngology and Rhinology.—Clinical. Cook County Hospital. One hour a week. Associate Professor BECK

SUMMARY OF HOURS

First Year

Subjects	First Semester		Second Semester		
	Didactic	Laboratory	Didactic	Laboratory	Total
ANATOMY:					
Gross	32	112	32	112	288
Microscopic	32	160	32	64	288
CHEMISTRY:					
Organic	32	96	....	....	128
Physiological	....	....	32	96	128
PHYSIOLOGY	....	....	48	96	144
	96	368	144	368	976

Second Year

Subjects	First Semester		Second Semester		
	Didactic	Laboratory	Didactic	Laboratory	Total
ANATOMY:					
Topographical	32	96	....	....	128
Bacteriology	48	96	....	....	144
Hygiene	....	....	32	....	32
Laboratory Diagnosis	....	....	....	64	64
Non-Pharmacal Therapeutics	....	....	48	16	64
Pharmacology	....	....	32	32	64
Prescription Writing and Pharmacy	....	16	....	....	16
Pathology	32	96	16	48	192
Physical Diagnosis	....	....	16	32	48
Physiology	32	96	....	....	128
Surgery (Operative)	....	....	....	48	48
	144	400	144	240	928

Third Year

Subjects	First Semester Didactic	First Semester Clinical and Laboratory	First Semester Dispensary	Second Semester Didactic	Second Semester Clinical and Loratory	Second Semester Dispensary	Total
Autopsies	....	....	....	....	32	....	32
Laryngology and Rhinology	16	16	9	....	....	9	50
Internal Medicine	64	40	18	64	40	18	244
Medical Jurisprudence	....	....	....	16	....	....	16
Pathology	....	....	....	....	64	....	64
Pediatrics	16	....	....	16	16	....	48
Pharmacology and Therapeutics	32	48	....	32	....	....	112
Obstetrics	32	....	....	32	20	....	84
Otology	....	....	....	6	4	....	10
General Surgery	32	32	18	32	36	18	168
Orthopedic Surgery	16	16	18	....	16	18	84
Genito-Urinary Surgery	16	....	18	....	....	18	52
	224	152	81	198	228	81	964

Fourth Year

Subjects	First Semester Didactic	First Semester Clinical and Laboratory	First Semester Dispensary	Second Semester Didactic	Second Semester Clinical and Laboratory	Second Semester Dispensary	Total
Dermatology	32	16	9	....	....	9	66
Genito-Urinary Surgery	....	4	....	....	16	....	20
Gynecology	32	32	9	....	20	9	102
Hygiene	....	....	....	....	24	....	24
Medicine	96	50	....	48	66	....	260
Neurology	16	16	18	16	16	18	100
Obstetrics	48	30	....	....	34	....	112
Ophthalmology	12	16	18	....	....	18	64
Pediatrics	....	32	18	....	12	18	80
Psychiatry	....	....	....	16	8	....	24
Roentgenology	....	....	....	....	4	....	4
General Surgery	32	72	....	32	88	....	224
Surgical Pathology	....	....	....	....	16	....	16
	268	268	72	112	304	72	1096

First year	976
Second year	928
Third year	964
Fourth year	1096
Total	3964

THE COLLEGE OF DENTISTRY

(For the *faculty* of the College of Dentistry, see page 39; for a description of the *building*, see page 59; for *fees*, see page 112.)

LOCATION

The College is situated on the corner of Harrison and Honore streets in Chicago, opposite the Cook County Hospital, in the center of the clinical field of Chicago. Adjoining the school on the west is the West Side Hospital, and on the north the College of Medicine of the University of Illinois.

INFIRMARY

The infirmary occupies the top floor. The equipment includes chairs of improved type with fountain cuspidors and instrument brackets attached. Each chair is furnished with an electric engine, electric light, compressed air, gas, and a stand for instruments. A hot-water sterilizer with compartments for each student's instruments is continuously in operation. For the year ending April 1, 1917, over 4,000 patients were treated in the infirmary.

LIBRARY

The library is housed with the Quine Library of the College of Medicine in the medical building adjoining. It is open from 9 a. m. to 5 p. m. daily during the school year, with a librarian in attendance. Through the courtesy of Mrs. Margaret Cook, wife of the late Dr. George Washington Cook, former Dean of the College of Dentistry, the dental library belonging to his estate, comprising two hundred volumes, besides unbound volumes of dental journals, has been given to the College. The principal dental journals are received regularly.

ADMISSION

An applicant for admission to the College of Dentistry must be at least 18 years of age. Women are admitted on the same terms as men.

Applicants for admission to the College of Dentistry of the University of Illinois in October, 1917, must offer 15 units[1] of high school work, made up as follows:

English	3 units[1]
Mathematics (ordinarily algebra and plane geometry)	2 units
Physics (with laboratory work)	1 unit
Electives chosen from lists B and C, pages 69-70	6 units
Free electives (any subjects accepted for graduation by an accredited high school)	3 units
	15 units

Entrance credits will be accepted *by certificate* from the following sources:

(1) From high schools and academies in the State of Illinois which are accredited to the University of Illinois.

(2) From schools accredited by the North Central Association of Colleges and Secondary Schools.

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[1] A unit is the amount of work represented by the pursuit of one high-school subject, with the equivalent of five forty-minute recitations a week, through 36 weeks; or, in other words, the work of 180 recitation periods of forty minutes each, or the equivalent in laboratory or other practise.

(3) From schools accredited to the state universities which are included in the membership of the North Central Association of Colleges and Secondary Schools.

(4) From high schools and academies registered by the Regents of the University of the State of New York.

(5) From Schools approved by the New England College Entrance Certificate Board.

(6) From the state normal schools of Illinois and other normal schools having equal requirements for graduation.

Entrance credits may be made *by examination:*

(1) In the examinations conducted by the Registrar of the University at the University in Urbana in January, July, and September of each year. For program see pages 75-76.

(2) In the examinations conducted by the Registrar of the University at the College of Dentistry in September of each year.

(3) In the examinations conducted in June of each year by the College Entrance Examination Board. For program see page 72.

(4) In the examination conducted by the Regents of the University of the State of New York.

CONDITIONS

No student will be admitted to the College of Dentistry with less than 15 units; but a student who offers 15 units in acceptable subjects but is deficient not to exceed one unit in one of the prescribed subjects (English, mathematics, physics) may be admitted, subject to the requirement that the deficiency must be removed before he can be permitted to register for his second year in the College.

Applicants for admission to the junior or senior classes of the College of Dentistry in October, 1917, were required to present a certificate of graduation from an accredited high school, or an equivalent; which equivalent is interpreted to mean *fifteen units*[1] *of preparatory work in an accredited high school or academy or a state normal school.*

No "conditions" were permitted; the full 15 units must be offered.

ADMISSION TO ADVANCED STANDING

Students who can comply with the requirements for admission to the University of Illinois, and who have studied dentistry in any college accredited to the University of Illinois for not less than one year, may be admitted to advanced standing. Such students, however, will be required to comply with all the conditions of the curriculum of the College of Dentistry.

Graduates of colleges of medicine accredited to the University of Illinois may be admitted to the College of Dentistry and given credit for one year in time and for all satisfactorily completed courses which are required by the College of Dentistry.

Students holding credits other than those listed above should communicate with the Dean for further information.

CURRICULUMS

(1) Three-year curriculum. Junior and senior courses only are offered under the three-year curriculum.

(2) Four-year curriculum. Required in 1917-18. Registration closed October 13, 1917. Degree of Doctor of Dental Surgery conferred on successful completion of full four-year curriculum.

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[1] For definition of a unit, see footnote, page 68.

(3) Combined curriculum in science and dentistry, leading to the degrees of Bachelor of Science and Doctor of Dental Surgery in six years.

Students may be admitted to the regular curriculum only during the first ten days of the first semester. Students who desire to pursue special studies may be received at any time.

REQUIREMENTS FOR GRADUATION

The degree of Doctor of Dental Surgery will be conferred on students who have completed the curriculum, attended the required time, and passed satisfactorily final examinations. To be eligible for the degree, the student must be twenty-one years of age, must possess a good moral character, and must have paid all fees.

The monthly report of attendance, and the standing of students in recitations, laboratory work, and infirmary practise, both operative and prosthetic, are considered in making up the rating of final examinations.

GRADUATION WITH THESIS

Students may become candidates for thesis honors through meritorious work. "Graduation with Thesis" is awarded on the presentation of a satisfactory scientific essay.

HONORARY RESEARCH ASSISTANTS

Students may, during the last year of their course, be permitted to pursue advanced work in a department, provided, first, that they have shown special aptitude along this line; and, second, that their previous work has been of a sufficiently high grade. If at the end of the last year's work the student's application and attainment is regarded as of a sufficiently high character, an honorary research assistantship may be awarded.

LICENSE FOR PRACTISE IN ENGLAND

On the recommendation of the Board of Examiners in Dental Surgery, the Council of the Royal College of Surgeons, in London, has added the College of Dentistry of the University of Illinois to the list of dental schools recognized by the College. This recognition implies that the Royal College of Surgeons will exempt graduates in dental surgery of the University of Illinois from the Preliminary Science Examination for the License in Dental Surgery, and will accept such parts of the curriculum for the License as are completed in the College of Dentistry of the University of Illinois toward the curriculum of the study required for a license.

DESCRIPTION OF COURSES IN DENTISTRY[1]

This description includes the courses of the four years of the new curriculum and those of the junior and senior years of the former three-year curriculum.

RHETORIC

Frank Hurburt O'Hara, Ph.D., *Instructor*

Courses of the New Four-Year Curriculum

Required Course—First Year

1-2. Rhetoric and Themes.—Short themes; public speaking; debate; general reading. 3; *I, II.* Mr. O'Hara

Advanced Courses.—Work in composition and rhetoric conducted by individual consultations and occasional meetings with advanced classes, the written work in other departments forming the chief basis of discussion. Mr. O'Hara

ANATOMY, HISTOLOGY, EMBRYOLOGY, ZOOLOGY

Albert Chauncey Eycleshymer, B.S., M.D., Ph.D., *Professor and Head of Department*
Frederick Bogue Noyes, A.B., D.D.S., *Professor of Histology*
Samuel Wendell Williston, M.D., Ph.D., D.Sc., *Professorial Lecturer in Comparative Anatomy*
Victor Emanuel Emmel, M.S., Ph.D., *Assistant Professor of Anatomy*
Roy Lee Moodie, A.B., Ph.D., *Assistant Professor of Anatomy*
Walter Scott Adkins, A.B., *Instructor in Anatomy*
——— ——— ———, *Instructor in Dental Histology*
Arthur Reuben Cooper, B.S., Ph.D., *Instructor in Zoology*
Hans Buch, *Technician*

Courses of the New Four-Year Curriculum

Required Courses—First Year

3. General Zoology.—Animal biology, structure; function, interrelations, origin, and development of animal life. Lectures; quizzes, 3; laboratory, 2 three-hour periods. *I.* Dr. Cooper

4. Vertebrate Zoology and Comparative Anatomy.—The Chordata; anatomy of systems of organs considered in respect to their function, ontogeny, and evolution in the vertebrate series; types of the chordata; mammalian splanchnology; vertebrate embryology. Lectures; quizzes, 3; laboratory, 2 three-hour periods; *II.* Dr. Cooper

8. General Histology.—Cell structure and function; cells and intercellular substances and tissues; elementary tissues; histology of the organ of the circulatory systems; the alimentary tract and the glands connected with it; the urinary and the respiratory systems; skin, nails, and hair. Lecture and quiz, 2; laboratory, 2 two-and-a-half-hour periods. *II.* Professor Noyes

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[1] The course numbers are indicated by Arabic numerals preceding the captions. Unless otherwise specifically stated, the Arabic numerals following the description of courses indicate the number of one-hour periods a week in each subject. The first and second semesters are indicated by the Roman numerals *I* and *II*, respectively.

Required Courses—Second Year

11. Systematic Anatomy.—Complete dissection of the head and neck. Lectures, demonstrations; recitations; laboratory, 2 three-hour periods. *I.*
Assistant Professor Emmel, Mr. Adkins

15. Dental Histology and Embryology.—Tissues of the teeth, supporting tissues; tissues of the oral cavity; enamel; operative procedures and preparation of cavity walls; embryology of the teeth, mouth, and jaws. Lecture or quiz, 1; laboratory, 2 two-and-a-half-hour periods. *I.* Professor Noyes

16. Topographical Anatomy.—The head and neck by means of serial sections; topography of organs and structures. Lectures; demonstrations; recitations; laboratory, 2 three-hour periods. *II.* Assistant Professor Moodie, Mr. Adkins

Courses of the Three-Year Curriculum

Required Courses—Junior Year

X-5. Topographical Anatomy.—(See course 15.) Lectures, recitations, and demonstrations, 2; laboratory, 2 three-hour periods. *I.*
Assistant Professor Moodie

X-21. Dental Histology and Embryology.—(See course 15.) Lecture or quiz, 1; laboratory, 1 three-hour period. *I.* Professor Noyes

X-8. Comparative Anatomy.—The masticatory apparatus; evolution; the teeth of various human races. Lectures, 1. *II* (*ten weeks*). Dr. Williston

CHEMISTRY AND METALLURGY

William Henry Welker, A.C., Ph.D., *Assistant Professor*
Clayton Sidney Smith, B.S., M.S., Ph.D., *Associate*
Lucien Morris, A.B., M.S., Ph.D., *Associate*
——— ——— ———, *Student Assistant*
Josephine Kennedy, A.B., *Student Assistant*
Philip A Ohlson, Ph.G., *Technician*

The instruction in chemistry is given in the laboratories in the Medical building.

Courses of the New Four-Year Curriculum

Required Courses—First Year

3. **General Inorganic Chemistry.**—Metals and non-metals. Lectures and recitations, 4; laboratory, 2 three-hour periods. *I.*
Assistant Professor Welker, Dr. Morris, Miss Kennedy, and assistants

6. **Qualitative Analysis.**—The important metals and acids. Lecture or recitation, 1; laboratory, 2 two-and-a-half-hour periods. *II.*
Dr. Morris, Miss Kennedy, and assistants

Required Courses—Second Year

9. **Organic Chemistry.**—Biological chemistry; fats, proteins, carbohydrates. Lectures, demonstrations, and conferences, 2; laboratory, 2 three-hour periods. *I.*
Dr. Smith and assistants

12. **Physiological Chemistry.**—Lectures, demonstrations, and conferences, 2; laboratory, 2 two-and-a-half-hour periods. *II.*
Assistant Professor Welker and assistants

Prerequisite: Course No. 9 or its equivalent.

Required Course—Third Year

15. Metallurgy.—Extraction and refining of metals used in dentistry; physical properties. Analysis of ores, alloys, solders, and cements; refining of gold, silver and tin. Preparation of alloys and solders. Lecture or recitation, 2; laboratory, 1 four-hour period. *I.* Assistant Professor WELKER and assistants

Optional Course

51. Metallurgy.—Advanced course, open to students who have completed satisfactory courses in inorganic chemistry, qualitative analysis, and metallurgy. Assistant Professor WELKER

Research.—The laboratories are open to persons with the requisite scientific training for the conduct of original investigation under the direction of a member of the staff.

PHYSIOLOGY

GEORGE PETER DREYER, A.B., Ph.D., *Professor of Physiology and Physiological Chemistry*
ALFRED ERWIN LIVINGSTON, B.S., M.S., Ph.D., *Associate*
HOWARD E CURL,[1] A.B., M.D., *Instructor*
JAMES T GROOT, *Assistant*
H PRATHER SAUNDERS, A.B., *Student Assistant*
IRWIN M SCHWARTZ, *Technician*

Courses of the New Four-Year Curriculum

Required Courses—Third Year

1-2. Human Physiology—Lectures, recitations and demonstrations. 5. *I*; 3. *II.* Dr. LIVINGSTON, Dr. CURL, and assistants

7. Physiology.—Laboratory. Practical exercises; demonstrations. 2 three-hour periods. *I.* Dr. LIVINGSTON, Dr. CURL, and assistants

Courses of the Three-Year Curriculum

Required Courses—Junior Year

X-1-2. Human Physiology.—Lectures, recitations, and demonstrations, 3. *I, II.* Dr. LIVINGSTON, Dr. CURL, and assistants

X-13-14. Physiology.—Laboratory. Practical exercises; demonstrations. 1 two-hour period. *I, II.* Dr. LIVINGSTON, Dr. CURL, and assistants

PATHOLOGY AND BACTERIOLOGY

DAVID JOHN DAVIS, B.S., M.D., Ph.D., *Professor and Head of the Department*
JOSIAH JOHN MOORE, B.S., M.D., M.S., *Associate in Experimental Medicine*
THOMAS HARRIS BOUGHTON, M.S., M.D., *Associate in Pathology*
CHARLES HENRY MANLOVE, Jr., B.S., M.D., *Associate in Pathology and Bacteriology*
FREDERICK HOWARD FALLS, A.B., M.D., M.S., *Instructor in Pathology*
HARRY CULVER, B.S., M.D., *Instructor in Pathology*
ORION C JONES, B.S., *Student Assistant in Pathology and Bacteriology*
CLIFFORD O ARMSTRONG, B.S., *Student Assistant in Pathology and Bacteriology*
AMY WEEDON, *Technician*
ESTHER VOSS, *Technician*
BEULAH MARIE SMITH, R.N., *Technician*

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[1] Resigned.

Course of the New Four-Year Curriculum

Required Course—Second Year

4. General Bacteriology.—Sterilization; disinfection; culture media; morphology; pathogens; disease; immunity; vaccines; hygiene. Lectures, recitations, and demonstrations, 3; laboratory, 2 two-and-a-half-hour periods. *II.*

Dr. Boughton, Dr. Culver, and assistants

Course of the Three-Year Curriculum

Required Course—Junior Year

X-5. General Bacteriology.—(See course 4.) Lectures, recitations, and demonstrations, 2; laboratory, 2 two-and-a-half-hour periods. *I.*

Dr. Boughton, Dr. Culver, and assistants

Optional Course

51. Advanced Laboratory and Research Work in Bacteriology.—Open to a limited number of qualified students. Hours to be arranged. Dr. Boughton

Course of the New Four-Year Curriculum

Required Course—Third Year

7. General Pathology.—Circulatory disturbances, retrogressive and progressive changes, inflammation, tumors, and special pathology of important organs of the body. Gross specimens, fresh and preserved. Attendance on autopsies required in the second half of the semester. Lectures, recitations, and demonstrations, 4; laboratory, 2 two-and-a-half-hour periods; *I.*

Dr. Boughton, Dr. Culver, and assistants

Courses of the Three-Year Curriculum

Required Course—Junior Year

X-8. General Pathology.—(See course 7.) Lectures, recitations, and demonstrations, 2; laboratory work, 2 two-and-a-half-hour periods. *II.*

Dr. Boughton, Dr. Culver, and assistants

55. Advanced Laboratory and Research Work.—Open to a limited number of qualified students. Dr. Boughton

OPERATIVE DENTISTRY

Donald MacKay Gallie, D.D.S., *Professor*
Louis E Bake, D.D.S., *Assistant Professor*
John C McGuire, D.D.S., *Instructor and Superintendent of Infirmary*
Edward John Krejci, D.D.S., *Instructor*
William Ira Williams, D.D.S., *Instructor*
George L Weir, D.D.S., *Instructor*

Courses of the New Four-Year Curriculum

Required Course—First Year

3. Operative Dentistry; Dental Anatomy and Nomenclature.— Modeling of tooth forms in clay; free-hand drawing of tooth surfaces. Lecture or recitation, 1; laboratory, 2 three-hour periods. *I.*

Assistant Professor Bake, Dr. Krejci, Dr. Weir

Required Course—Second Year

11-12. Operative Dentistry.— Carving of tooth forms in modeling compound and ivory; instrument making and use; dissection of pulp chambers and root canals in natural teeth; cavity preparation in ivory forms. Lecture, 1; laboratory, 2 two-and-a-half-hour periods. *I, II.*

Assistant Professor Bake, Dr. Krejci, Dr. Weir

Required Courses—Third Year

15-16. Operative Dentistry.—Cavity nomenclature and preparation; filling materials; inlay technic, both gold and porcelain; chair positions; the rubber dam; clamps, wedges, and separator; treating root canals. Lecture, 1; laboratory, 2 two-and-a-half-hour periods. *I, II.*

Professor Gallie, Assistant Professor Bake, Dr. Krejci, Dr. Williams, Dr. Weir

18. Infirmary Clinic: Practical Operative Dentistry.—256 hours,[1] 16 hours a week. *II.*

Professor Gallie, Assistant Professor Bake, Dr. Krejci, Dr. Williams

Required Courses—Fourth Year

21-22. Operative Dentistry.—Management of patients, special cases, children's teeth. Erosion, atrophy, and abrasion. Office equipment and management. Lecture or recitation, 2. *I, II.* Professor Gallie

24-26. Infirmary Clinic: Practical Operative Dentistry.—1,024 hours,[1] 32 hours a week. *I, II.* Professor Gallie and assistants

Courses of the Three-Year Curriculum

Required Courses—Junior Year

X-13-14. (See course 15-16.) Lecture and recitation, 2; laboratory, 2 two-and-a-half-hour periods. *I, II.*

Professor Gallie, Assistant Professor Bake, Dr. Krejci, Dr. Williams, Dr. Weir

X-20. Infirmary Clinic: Practical Operative Dentistry.—256 hours,[1] 16 hours a week. *II.*

Professor Gallie, Assistant Professor Bake, Dr. Krejci, Dr. Williams, Dr. Weir

Required Courses—Senior Year

X-27-28. Operative Dentistry.—Lecture, 1. *I, II.* Professor Gallie

X-31-32. Infirmary Clinic: Practical Operative Dentistry.—1,024 hours,[1] 32 hours a week. *I, II.* Professor Gallie and assistants

PROSTHETIC DENTISTRY

George Walter Dittmar, D.D.S., *Professor*
Solomon Perry Starr, D.D.S., *Assistant Professor*
William Ira Williams, D.D.S., *Instructor*
Roscoe W Upp, D.D.S., *Instructor*
Burne O Sippy, *Instructor*

Courses of the New Four-Year Curriculum

Required Course—First Year

2. Prosthetic Dentistry.—Terminology; impressions; vulcanization; partial and full vulcanite dentures; soldering; band and wire clasp. Lecture or quiz, 1; laboratory, 2 four-hour periods. *II.* Dr. Upp, Dr. Sippy

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[1] These hours are distributed among the various clinical departments.

Required Course—Second Year

5-6. Prosthetic Dentistry.—Swaged and cast dentures; tenso-friction appliances; crown and bridge construction. Lecture and quiz, 2; laboratory, 2 three-and-a-half-hour periods. *I, II.* Assistant Professor STARR, Dr. UPP, Dr. SIPPY

Required Courses—Third Year

9-10. Prosthetic Dentistry.—The human dental mechanism; mastication; Gysi and Hall theories of occlusion and articulation; advanced plate, crown, and bridge construction; porcelain technic; splints; obturators. Lecture, 1; laboratory, 2 two-and-a-half-hour periods. *I, II.*
Professor DITTMAR, Assistant Professor STARR, Dr. UPP, Dr. SIPPY

14. Infirmary Clinic: Practical Prosthetic Dentistry.—256 hours,[1] 16 hours a week. *II.* Professor DITTMAR and assistants

Required Courses—Fourth Year

17-18. Prosthetic Dentistry.—Lectures, 2. *I, II.*
Professor DITTMAR and assistants

21-22. Infirmary Clinic: Practical Prosthetic Dentistry.—1,024 hours,[1] 32 hours a week. *I, II.* Professor DITTMAR and assistants

Courses of the Three-Year Curriculum

Required Courses—Junior Year

X-3-4. Prosthetic Dentistry.—Terminology; root preparation and crown construction; bridges. Lecture, 1; laboratory, 2 three-and-a-half-hour periods. *I, II.*

X-8. Infirmary Clinic: Practical Prosthetic Dentistry.—256 hours,[1] 16 hours a week. *II.* Professor DITTMAR and assistants

Required Courses—Senior Year

X-15-16. Prosthetic Dentistry.—Lectures, 2. *I, II.*
Professor DITTMAR and assistants

X-19-20. Infirmary Clinic: Practical Prosthetic Dentistry.—1,024 hours,[1] 32 hours a week. *I, II.* Professor DITTMAR and assistants

MATERIA MEDICA AND THERAPEUTICS

EDGAR DAVID COOLIDGE, D.D.S., *Professor*
EDWARD JOHN KREJCI, D.D.S., *Instructor*
BURNE O SIPPY, A.B., D.D.S., *Instructor*
WILLIAM A CUSICK, D.D.S., *Clinical Assistant in Therapeutics*

Courses of the New Four-Year Curriculum

Required Courses—Third Year

3-4. Pharmacology and Therapeutics.—Prescription writing; drugs and their therapeutic classifications; action of drugs; anesthetics and stimulants. Lectures, 1. *I, II.* Professor COOLIDGE

8. Pharmacology and Therapeutics.—Laboratory, 1 two-hour period. *II.*
Professor COOLIDGE

Required Courses—Fourth Year

11-12. Therapeutics.—Pathology of the peridental membrane and dental pulp. Prophylaxis. A thesis on oral hygiene required. Lectures; recitations, 2. *I, II.*
Professor COOLIDGE, Dr. KREJCI, Dr. SIPPY

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[1] These hours are distributed among the various clinical departments.

15-16. Infirmary Clinic.—Practical examination and diagnosis. Systematic records of history, diagnosis, and treatment. 1,024 hours,[1] 32 hours a week. *I, II.*
Professor Coolidge, Dr. Krejci, Dr. Cusick, Dr. Sippy

Courses of the Three-Year Curriculum

Required Courses—Junior Year

X-3. Materia Medica.—Drugs. Administration; conditions which modify their effects; action on tissues and organs. Poisons. Laboratory and animal experiments. Lectures; recitations, 2. *I.* Professor Coolidge, Dr. Krejci

X-4. Therapeutics.—Prescription-writing; pathological lesions; dental caries; salivary deposits; oral hygiene and prophylaxis. Lectures; recitations, 2. *II.*
Professor Coolidge

Required Courses—Senior Year

X-5-6. Therapeutics.—(See course 11-12.) Lecture or recitation, 1. *I, II.*
Professor Coolidge, Dr. Krejci, Dr. Sippy

X-17-18. Infirmary Clinic.—(See course 15-16.) 1,024 hours,[1] 32 hours a week. *I, II.* Professor Coolidge, Dr. Krejci, Dr. Cusick, Dr. Sippy

ORAL SURGERY AND ORAL PATHOLOGY

Frederick Brown Moorehead, M.S., D.D.S., M.D., *Professor and Head of the Department*
Louis Schultz, D.D.S., M.D., *Assistant Professor*
Frank Joseph Bernard, D.D.S., *Instructor in Extracting*
Anna R Bolan, R.N., *Instructor in Surgical Technic*
Michael F Hough, D.D.S., *Instructor in Extracting*
Harold O Hansen, D.D.S., *Assistant in Oral Surgery*
James Everett Fonda, D.D.S., *Assistant in Oral Surgery*

Courses of the New Four-Year Curriculum

Required Courses—Third Year

1-2. Principles of Surgery.—Lectures; conferences. 1; *I, II.*
Assistant Professor Schultz

5-6. Oral and Dental Pathology.—Pathological changes in oral cavity and general disease processes; neoplasms of mouth and jaws; dental pulp, peridental membrane, and alveolar process. Lectures; recitations; demonstrations; laboratory, 1 two-hour period. *I, II.*
Professor Moorehead, Assistant Professor Schultz, and assistants

Required Courses—Fourth Year

11-12. Oral Surgery.—Etiology, diagnosis; surgical lesions; anesthetics. Lecture, 1; *I, II.* Professor Moorehead or Assistant Professor Schultz

15-16. Oral Surgery Clinic.—General case discussions and diagnosis, students participating by assignment. Demonstrations of surgical technic and anesthetics. 1 three-hour period. *I, II.*
Professor Moorehead, Assistant Professor Schultz, and assistants

19-20. Extracting Clinic.—Selection and application of forceps and elevators; use of nitrous oxid and oxygen; novocain, illustrating conduction and infiltration methods; asepsis and after-treatment of cases. 1,024 hours[1] to small groups, 6 three-hour periods. *I, II (one week).*
Dr. Bernard, Dr. Hough, Miss Bolan, and assistants

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[1] These hours are distributed among the various clinical departments.

Courses of the Three-Year Curriculum

Required Courses—Senior Year

X-7-8. Special Bacteriology and Pathology.—The oral cavity; the relation of foci of infections found in the mouth to constitutional diseases; pathology of the pulp and peridental membrane. Lectures, demonstrations, laboratory; 1 two-hour period. *I, II.*
Professor MOOREHEAD, Assistant Professor SCHULTZ, and assistants

X-13-14. Oral Surgery.—Etiology, diagnosis, treatment; anesthetics. Lectures, 1; *I, II.* Professor MOOREHEAD or Assistant Professor SCHULTZ

X-18-19. Oral Surgery Clinic.—(See course 15-16.) 1 three-hour period. *I, II.*
Professor MOOREHEAD, Assistant Professor SCHULTZ, and assistants

X-21-22. Extracting Clinic.—(See course 19-20.) 1,024 hours;[1] to small groups, 6 three-hour periods. *I, II* (*one week*).
Dr. BERNARD, Dr. HOUGH, Miss BOLAN, and assistants

ORTHODONTIA

FREDERICK BOGUE NOYES, A.B., D.D.S., *Professor*
RALPH T HUFF, D.D.S., *Instructor*

Courses of the New Four-Year Curriculum

Required Courses—Fourth Year

3-4. Orthodontia.—Normal occlusion and its relation to the harmonious development of the features; classification, etiology, and treatment of mal-occlusions. Lecture, 1. *I, II.* Professor NOYES, Dr. HUFF

7-8. Infirmary Clinic: Practical Orthodontia.—1,024 hours,[1] 32 hours a week. *I, II.* Professor NOYES, Dr. HUFF

Course of the Three-Year Curriculum

Required Course—Senior Year

X-11-12. Orthodontia.—Normal occlusion and its relation to the harmonious development of the features; classification, etiology, and treatment of mal-occlusions. Lecture, 1. *I, II.* Professor NOYES, Dr. HUFF

RADIOGRAPHY

JOHN C MCGUIRE, D.D.S., *Instructor*
ROBERT E WILDER, *Student Assistant*
RALPH G COLLINS, *Student Assistant*

Course of the New Four-Year Curriculum

Required Course—Fourth Year

3. Radiography.—Radiographs, technic and interpretation. Lectures, 1. *I* (*ten weeks*). Laboratory, to small groups, 3 two-hour periods. *I* (*one week*).
Dr. MCGUIRE and assistants

Course of the Three-Year Curriculum

Required Course—Senior Year

X-5. Radiography.—(See course 3.) Lectures, 1. *I* (*ten weeks*). Laboratory, to small groups, 3 two-hour periods. *I* (*one week*). Dr. MCGUIRE and assistants

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[1] These hours are distributed among the various clinical departments.

DENTAL JURISPRUDENCE

ELMER DEWITT BROTHERS, B.S., LL.B., *Lecturer*

Course of the New Four-Year Curriculum

Required Course—Third Year

3. **Dental Jurisprudence.**—Individual and professional rights and obligations; relation of dentist and patient; confidential character and inviolability of such relation; dental laws. Lectures, 1. *I* (*ten weeks*). Mr. BROTHERS

Course of the Three-Year Curriculum

Required Course—Senior Year

X-5. **Dental Jurisprudence.**—(See course 3.) Lectures, 1. *I*. Mr. BROTHERS

COURSES FOR PRACTITIONERS

Courses will be arranged for an individual or groups of individuals. Application for such courses should be made to the Dean.

SUMMARY OF THE THREE-YEAR CURRICULUM

Junior Year

Departments	Hours Didactic	Hours Laboratory	Total
Anatomy	17[1]	68[1]	85
Physiology	68	102	170
Materia Medica	68	....	68
Bacteriology	34[1]	85[1]	119
Pathology	51[2]	68[2]	119
Histology	34	96	130
Prosthetic Dentistry	34	204	238
Operative Dentistry	34	170	204
Comparative Anatomy	17[2]	....	17
	357	793	1150

Senior Year

Departments	Hours Didactic	Hours Laboratory	Hours Clinic	Total
Special Bacteriology and Pathology	34	34	....	68
Oral Surgery	34	....	102	136
Extracting	....	....	288	288
Therapeutics	34	....	....	34
Orthodontia	34	....	....	34
Prosthetic Dentistry	34	68	340	442
Operative Dentistry	34	....	340	374
Porcelain Art	....	....	32	32
Jurisprudence (Dental)	17	....	....	17
Radiography	17	10	....	27
Ethics and Economics	10	....	....	10
	248	112	1102	1462

SUMMARY OF THE NEW FOUR-YEAR CURRICULUM

First Year

Departments	Hours Didactic 1st Sem.	Hours Didactic 2nd Sem.	Hours Laboratory and Clinical 1st Sem.	Hours Laboratory and Clinical 2nd Sem.	Total
Zoology	48	48	96	96	288
Chemistry (General Inorganic)	64	....	96	....	160
Chemistry (Qualitative Analysis)	....	16	....	80	96
Rhetoric	48	48	....	....	96
Operative Dentistry	16	....	96	....	112
Prosthetic Dentistry	....	16	....	128	144
General Histology	....	32	....	80	112
					1008

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[1] First Semester.

[2] Second Semester.

Second Year

Departments	Didactic		Hours Laboratory and Clinical		
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	Total
Anatomy	32	32	64	64	192
Bacteriology	....	48	....	80	128
Chemistry (Organic)	32	....	96	....	128
Chemistry (Physiological)	....	32	....	80	112
Dental Histology and Embryology	16	....	80	....	96
Operative Dentistry	16	16	80	80	192
Prosthetic Dentistry	32	32	112	112	288
					1136

Third Year

Departments	Didactic		Hours Laboratory and Clinical		
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	Total
Jurisprudence	10	....	....	....	10
General Pathology	64	....	80	....	144
Metallurgy	32	....	64	....	96
Materia Medica, and Therapeutics	16	16	....	32	64
Operative Dentistry	16	16	80	80	192
Prosthetic Dentistry	16	16	80	80	192
General Clinics (Infirmary Practise)	....	....	....	256	256
Physiology	80	48	96	....	224
Principles of Surgery	16	16	....	...	32
Dental Pathology	16	16	16	16	64
					1274

Fourth Year

Departments	Didactic		Hours Laboratory and Clinical		
	1st Sem.	2nd Sem.	1st Sem.	2nd Sem.	Total
General Clinics (Infirmary Practise)	....	....	512	512	1024
Operative Dentistry	32	32	....	....	64
Orthodontia	16	16	....	....	32
Prosthetic Dentistry	32	32	....	....	64
Radiography	10	....	6	....	16
Therapeutics	32	32	....	....	64
Oral Surgery (Lectures)	16	16	....	....	32
Oral Surgery (Clinics)	....	....	48	48	96
					1392

BOARD AND ROOMS

Board and rooms convenient to the College can be obtained at prices varying from four to six dollars a week; rooms without board, furnished or unfurnished, can be obtained at from six to ten dollars per month. Students often club together and thus reduce their expenses.

EMPLOYMENT BUREAU, ROOM REGISTER, INFORMATION BUREAU

The University maintains an Employment Bureau, Room Register, and Information Bureau under the direction of Mr. Arthur J. Brunner, to assist students in finding desirable rooms and boarding places or in securing employment, and to endeavor to give them any other information which they may need.

FURTHER INFORMATION

For further information, address

The Dean, College of Dentistry, University of Illinois,
1838 W. Harrison St., Chicago, Illinois.

THE SCHOOL OF PHARMACY

For the *faculty* of the School of Pharmacy, see page 41; for a description of the *buildings*, see page 59.

HISTORY

The School of Pharmacy was originally the Chicago College of Pharmacy and was incorporated under that name September 5, 1859.

In October, 1859, the first course of lectures was instituted, occupying three evenings a week for a period of six months. The first class, of two students, was graduated in 1861. The war caused a suspension of teaching, and the school was not reopened until 1870. The fire of 1871 destroyed the equipment, but in 1872 instruction was resumed for the second time and has since continued without interruption.

The College was formally united with the University May 1, 1896, becoming the technical School of Pharmacy of the University of Illinois.

THE NEW LOCATION

In December, 1915, the University purchased for the School the property located at the corner of Wood and Flournoy streets and comprising eight city lots with two large brick buildings. The new quarters were occupied in June, 1916.

The new location is in the great medical center of Chicago and close to the colleges of Medicine and Dentistry of the University.

EQUIPMENT

The buildings include two substantial brick structures connected at each floor by a stair-tower building. Both have daylight from four sides and electric light throughout, and are heated by steam.

The larger building is sixty by eighty feet square and four stories high. It contains the offices, the library, the museum, the microscopical laboratory, the bacteriological laboratory, an auditorium, a lecture hall, a recitation room, preparation rooms and private laboratories for the teachers, students' rooms, and locker rooms.

The smaller building is forty-four by eighty-eight feet square and three stories high. It contains the pharmaceutical laboratory, the laboratory for quantitative analysis, the laboratory for qualitative analysis, and several private laboratories for the teachers, as well as store rooms and supply rooms.

The stair-tower building, of fireproof construction, provides the students' entrance, stairways to each floor, corridors, toilets, and rooms for the hydrogen sulphide generator and distilled water supply.

The total capacity of the laboratories is sufficient for 266 students, working at one time.

The laboratories are supplied with compound microscopes, analytical balances, and special apparatus, and with collections of crude drugs, medicinal plants, chemicals, and pharmaceutical products.

The library contains over three thousand volumes, including, in addition to the usual works of reference, many rare books and complete files of the leading pharmaceutical journals.

CURRICULUMS

For the Degree of Graduate of Pharmacy

In the curriculum leading to the degree of Graduate in Pharmacy the instruction is so arranged as to require the attendance of each student on three days each week and from twenty to twenty-two hours weekly during two annual sessions of thirty-six weeks each. This arrangement is advantageous to drug clerks who desire to spend a part of their time in drug stores while attending school, thereby adding to their practical experience and at the same time earning a part or all of their living expenses.

The subjects taught are chemistry, general, pharmaceutical, and analytical; pharmacy, theoretical, manufacturing, and dispensing; botany; physiology; and materia medica.

For the Degree of Pharmaceutical Chemist

To meet the demand for special training on the part of students who desire to pursue more extended courses in pharmaceutical chemistry, applied microscopy, and bacteriology, or to prepare themselves for positions in food and drug laboratories, the School offers a three-year curriculum leading to the degree of Pharmaceutical Chemist. This curriculum comprises three annual sessions of thirty-six weeks each, the first two years being identical with the curriculum for the degree of Graduate in Pharmacy. The third year consists largely of laboratory practise.

This curriculum includes, in addition to the subjects mentioned above, organic analysis and proximate assays, new remedies, analysis of urine, food and sanitary analysis, bacteriology, and applied microscopy.

The system of teaching includes lectures, illustrations, demonstrations, recitations, written and oral examinations, and individual practise and personal instruction in the various laboratories, much time being devoted to this important part of the student's work.

ADMISSION

The regular session opened October 2, 1917, and closes June 12, 1918.

Applicants for admission must be at least seventeen years of age and must be graduates of accredited high schools. Their high-school course must have included 15 acceptable units of high-school work, or the full educational equivalent.

Admission as special students, not candidates for a degree, is restricted to registered apprentices, assistants, or pharmacists, not less than twenty-one years of age.

Students who have pursued courses of study in other schools of pharmacy will be given credit for such portions of their work as are equivalent to the work required by this School.

GRADUATION

Drug store experience is not made a requirement for the degree of Pharmaceutical Chemist. Students who have satisfactorily completed the curriculum will be awarded the degree on the recommendation of the faculty.

For the degree of Graduate in Pharmacy this School has always required practical drug store experience. The actual time of attendance at the School, amounting to eighteen months, is credited as part of the four years of practical experience required for the degree. Candidates must have attained the age of twenty-one years and have satisfactorily finished the work leading to the degree.

Students who have successfully met the scholarship requirements, but are lacking in age or in practical experience, will receive a certificate and will be awarded the diploma when the requirements of age and experience are satisfied.

Persons competent to fill the general requirements of admission to the University may be granted credits upon other University courses for equivalent work completed at the School of Pharmacy.

STATE REGISTRATION

The pharmacy law of Illinois requires all candidates for the certificate of registered pharmacist to pass an examination given by the State Department of Registration and Education. Credit is given as a part of the "practical experience in compounding drugs" required by the law, for the actual time of attendance at a recognized school of pharmacy but not to exceed twenty-four months for registered pharmacist nor twelve months for registered assistant pharmacist.

An amendment to the pharmacy law, in effect July 1, 1917, requires graduation from a recognized school of pharmacy, of candidates for the certificate of registered pharmacist, with the exception of those drug clerks who were entered on the rolls of the Board of Pharmacy as apprentices or assistants prior to the date when the law went into effect. The diploma of this school also admits to the pharmacy examinations in other states where the graduation requirement is in force.

The School holds membership in the American Conference of Pharmaceutical Faculties.

FEES AND EXPENSES

For a statement of the fees, see page 112. Fees are payable in advance. Students unable to meet this requirement must make satisfactory arrangements with the Dean at the beginning of the course.

BOARD AND LODGING.—Good board and lodging, within a short distance of the School, can be had for from five to six dollars a week.

SELECTION OF SEATS.—Seats in the lecture halls and desks in the laboratories will be assigned to students in the order of enrollment. To enroll, junior students will fill out the matriculation blank and forward it to the Dean together with credentials for admission and the matriculation fee of ten dollars; senior students will pay the registration fee of five dollars. It is of advantage to students to matriculate early.

OPPORTUNITIES FOR EMPLOYMENT.—A register of students desiring employment and of pharmacists wishing to employ students is kept at the School. Students desiring employment are invited to correspond with the Dean.

FURTHER INFORMATION

Further information may be found in the special announcement of this School, which may be obtained from the DEAN, SCHOOL OF PHARMACY, 701 South Wood Street, Chicago, Illinois.

PART III
DESCRIPTION OF COURSES

DESCRIPTION OF COURSES

EXPLANATION

The arrangement of subjects in the following Description of Courses is alphabetical. The connections of allied departments are indicated by cross references.

Following the description of each course of instruction will be found the requirements, if any, for admission to that particular course. The sequence indicated by these prerequisites must be followed. For instance, under Art and Design 7c, Still-life in Oil Colors, the prerequisites given are Art and Design 1 and 2. These two courses must be completed before Course 7c may be taken.

If a course not required for graduation is selected by fewer than five students it may be withdrawn for the semester.

Graduate courses are numbered upwards from 100.

Credit is reckoned, *for undergraduate students*, in *semester hours*, or simply *hours*. An *hour* is one class period a week for one semester or the equivalent in laboratory, shop, or drawing room.

The semester, and the number of hours each semester for which the course counts, are shown after each course, thus: *I, II;* (2). The Roman figures indicate semesters; the Arabic numerals in parenthesis indicate hours of credit for *each semester* for undergraduates.

Credit for first year graduate students, candidates for the master's degree, is counted in units. A unit course is one which requires ten hours of time a week through one semester, irrespective of the distribution of that time in class work, laboratory work, and private study; four such courses or their equivalent constitutes a full minimum program for one semester. The unit values of graduate courses (numbered 100 and upwards) are indicated in the following pages. Courses of the intermediate groups "for graduates and advanced undergraduates," are in general (unless otherwise specified by the department concerned) evaluated as follows for graduate credit: (a) courses open only to students having at least senior standing, 1 unit for a 4-hour or 5-hour course, ½ unit for a 1-hour, 2-hour, or 3-hour course; (b) courses open to juniors, ½ unit for a 4-hour or 5-hour course; ¼ unit for a 1-hour, 2-hour, or 3-hour course.

For second-year and third-year graduate students, candidates for the doctor's degree, no record of units is kept.

The omission of a course for the current year is indicated by enclosing the entire description of such a course in brackets.

Courses given in the summer session of 1917 are indicated by the initial letter S preceding the number and are grouped by departments after the courses given during the winter.

ACCOUNTANCY

(See Business Organization and Operation.)

AGRICULTURE AND AGRICULTURAL EXTENSION

Summer Session Courses

(See also Agronomy, Animal Husbandry, Dairy Husbandry and Horticulture.)

S 1. **General Agriculture.**—Agronomy, animal husbandry, horticulture and farm business. Selection of subject-matter, and methods of presentation for elementary and secondary schools. (2½). Assistant Professor Nolan

S 90. **Rural Education.**—Rural life conditions, needs, and agencies at work in rural progress. (2). Assistant Professor Nolan

AGRICULTURAL COLLEGE EXTENSION

Fred Henry Rankin, B.S., *Superintendent and Assistant to the Dean, with rank of Assistant Professor*
Aretas Wilbur Nolan, M.S., *Assistant Professor*
Albert Woodward Jamison, M.S., *Assistant Professor*
Joseph Harvey Checkley,[1] B.S., *Associate*
Carl Colvin, B.S., *Associate*
Robert Enoch Hieronymus, A.M., LL.D., *Community Adviser*
James Henry Greene, M.S., *State Leader, Junior Extension*
Carl Colvin, B.S., *Associate, Agricultural Education*

3. **Methods in High School Agricultural Extension.**—*II;* (1).
Assistant Professor Rankin, Assistant Professor Jamison

Prerequisite: One year of university work.

4. **Elementary Agricultural Extension.**—Lectures. (Required of first-year students. Credit given to agricultural freshmen only.) *I;* (1).
Dean Davenport and other lecturers; Assistant Professor Jamison in charge

6. **Principles and Methods of High-School Agriculture.**—*II;* (3). Mr. Colvin

Prerequisite: Two years' university work in agriculture.

7. **Vocational Agricultural Education.**—Administration, supervision, and teaching of agriculture under the Smith-Hughes Act. *II;* (2).
Assistant Professor Nolan, Mr. Greene

Prerequisite: Two years' university work in agriculture.

8. **Curriculums in Elementary and Secondary School Agriculture.**—Development of agricultural curriculums through the Smith-Hughes vocational movement. *II;* (3). Mr. Colvin

Prerequisite: One year of university work.

AGRONOMY

Cyril George Hopkins, Ph.D., *Professor, Agronomy*
Louie Henrie Smith, Ph.D., *Professor, Plant Breeding*
Jeremiah George Mosier, B.S., *Professor, Soil Physics*
William Leonidas Burlison, Ph.D., *Associate Professor, Crop Production*
Robert Stewart, Ph.D., *Associate Professor, Soil Fertility*
Axel Ferdinand Gustafson, M.S., *Assistant Professor, Soil Physics*
Earl Archibald White, Ph.D., *Assistant Professor, Farm Mechanics*
Albert Lemuel Whiting, Ph.D., *Assistant Professor, Soil Biology*
Frederick Charles Bauer, B.S., *Associate, Soil Fertility*
Forest Adison Fisher, B.S., *Associate, Soil Physics*

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[1] Resigned, January, 1918.

Marvin Edward Jahr, A.B., *Associate, Farm Mechanics*
Frank Archibald Wyatt, Ph.D., *Associate, Soil Fertility*
Harry Charles Gilkerson, B.S., *Instructor, Soil Fertility*
Howard John Snider, B.S., *Instructor, Soil Fertility*
Warren Rippey Schoonover,[1] M.S., *Instructor, Soil Biology*
Edward Harvey Walworth, M.S., *Instructor, Crop Production*
Roy Hansen, B.S., *Instructor, Soil Biology*
Edward Fritchoff Torgerson, B.S., *Instructor, Soil Physics*
Hiram Foley Tuttle, M.S., *Instructor, Soil Physics*
Washington Irving Brockson,[1] M.S., *Assistant, Crop Production*
Ray Iris Shawl, B.S., *Assistant, Farm Mechanics*
George Harlan Dungan, B.S., *Assistant, Crop Production*
John Pieper, M.S., *Assistant, Crop Production*

Courses for Undergraduates

Crops: Agronomy 7, 8, 18, 22, 25.

Soils: Agronomy 9, 10, 11, 12, 13, 18, 23.

Farm Mechanics and Buildings: Agronomy 1, 2, 3, 4, 17, 18, 19, 20, 26, 27.

1. **Drainage.**—Drainage and its surveying operations. Chaining, mapping, leveling, designing, setting grade stakes, laying tile. Lectures and laboratory first half semester; field work second half semester. *II;* (3). Mr. Jahr

Prerequisite: Agronomy 9 (soil physics), or its equivalent.

2. **Power Driven Machinery.**—Field and belt driven machines for soil, seed, and feed preparation, and for seeding, cultivating, harvesting, and handling farm crops. Lectures; recitations; laboratory. *I;* (3). Assistant Professor White

Prerequisite: Agronomy 26.

3. **Farm Motors.**—Internal combustion engines and tractors; the horse as a motor; windmills, waterpower, steam engines, electric motors. Transmission of power and its application to farm operations. Lectures; quizzes; laboratory. (Alternating with Mechanical Engineering 71 and 73 if desired.) *II;* (3).
Assistant Professor White

Prerequisite: Agronomy 26.

4. **Farm Buildings.**—Materials; construction, arrangement, design, and cost estimation of machine sheds, granaries, cribs, silos, poultry houses, swine houses, barns, and farm residences. Recitations; drafting. *I;* (3).

Prerequisite: Agronomy 26.

7. **Advanced Farm Crops.**—Climate and soil; meadows and pastures; rotation; labor; cost of production; seed production; products and by-products; storage; marketing. Lectures; assigned reading; laboratory; demonstrations. *II;* (3).
Associate Professor Burlison

Prerequisite: Agronomy 25, Chemistry 13a, and either Botany 3b or an approved equivalent in science (consult instructor).

8. **Special Farm Crops.**—Special crops in which the student is interested. Reading; experiments by pot culture in the greenhouse or by plots in the field. Part of this work may be done during summer vacation; *II;* (2-5).[2]
Associate Professor Burlison, Mr. Walworth

Prerequisite: Agronomy 7.

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[1] On leave of absence for military service.

[2] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

9. **Soil Physics and Management.**—Soil material; composition and classification; moisture; texture; wasting by washing; fall or spring plowing and drainage; specific gravity, porosity, water holding capacity, and capillary power; rotation; continuous cropping Lectures; laboratory. *I* or *II;* (5).

Professor MOSIER, Assistant Professor GUSTAFSON, Mr. FISHER, Mr. TORGERSON

Prerequisite: Chemistry 2, and one unit of entrance or university physics. Irregular students should consult instructor.

10. **Special Work in Soil Physics.**—Special soils; physical analysis; hygroscopic and wilting coefficients; moisture equivalents; effect of tillage. Part of this work may be done during summer vacation. *I* or *II;* (2-5).[1]

Professor MOSIER, Assistant Professor GUSTAFSON, Mr. FISHER

Prerequisite: Agronomy 9, and approval of the Soil Physics division.

11. **Soil Biology.**—Biochemical activities of soil microorganisms; fertility, bacteria, protozoa, algæ, and fungi; isolation of organisms; action on insoluble mineral plant food; fermentation of crop residues and manures; nitrogen fixation, assimilation, and preservation. Lectures; quiz; laboratory. *II;* (5).

Assistant Professor WHITING, Mr. HANSEN

Prerequisite: Agronomy 12 and Bacteriology 1, or 5, or 20, or the equivalent.

12. **Soil Fertility, Fertilizers, Rotations.**[2]—Effects of crops on the soil and on succeeding crops; rotations; fertility and productivity; manures and fertilizers; soils cropped continuously with different crops and with a series of crops; fertility of soils of different types from sections of Illinois.[3] Lectures; laboratory. *II;* (5).

Professor HOPKINS, Mr. BAUER, Dr. WYATT, Mr. GILKERSON, Mr. SNIDER

Prerequisite: Chemistry 13a.

12a. **Soil Fertility, Fertilizers, Rotation.**[2]—The same as Agronomy 12, for advanced students. Lectures; quiz. *II;* (2).

Professor HOPKINS, Mr. BAUER, Dr. WYATT, Mr. SNIDER

Prerequisite: Graduate standing, or advanced undergraduate standing with the approval of the division.

13. **Investigation of the Fertility of Special Soils.**—Soils in which the student is interested. Fertility; effect of fertilizers, as determined by pot cultures and by pot experiments; work of experiment stations and experimenters. *I;* (3).

Associate Professor STEWART, Dr. WYATT

Prerequisite: Agronomy 12.

16. **German Agricultural Readings.**—The current numbers of German journals of agricultural science used as texts, with special attention to soils and crops. *II;* (2). Professor HOPKINS

Prerequisite: Two years' work in German; Agronomy 12.

17. **Harvesting Machinery.**—Expert work on binders, mowers, rakes, loaders, and stackers. (For students preparing to become professional field experts on these machines.) *II;* (3). Mr. SHAWL

Prerequisite: M. E. 71; Agronomy 2, and Agronomy 3 or registration therein, and the consent of the instructor.

18a-18b. **Investigation or Thesis.**—*I*, *II*; (5-10).[1]

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

[2] A required inspection trip to certain soil experiment fields or farms will be arranged in May or early June, in connection with courses 12 and 12a, which will require an expense of about $10 on the part of the student.

[3] The student is advised to collect in advance a representative composite sample of surface soil (at least 6 pounds) from land in which he is interested (see page 44 of the Soil Fertility Laboratory Manual, or Illinois Experiment Station Circular 150).

Professor HOPKINS, Professor MOSIER, Professor SMITH, Associate Professor STEWART, Associate Professor BURLISON, Assistant Professor WHITING

19a-19b. Research Work in Farm Mechanics.—Consult instructor regarding time and requirements. *I, II;* (1-5).[1] Assistant Professor WHITE, Mr. JAHR

20. Farm Concrete Construction.—Materials used in concrete construction; mixing and placing; simple comparative tests; specifications and estimates for farm concrete construction. Recitations; laboratory. *II;* (2). Mr. JAHR

22. Plant Breeding.—The improvement by breeding of field crops, including grains, grasses, and legumes. Lectures; assigned reading; demonstrations; laboratory. (This course may be taken in conjunction with Agronomy 7.) *II;* (2). Professor SMITH

Prerequisite: Botany 1; Chemistry 13a; Agronomy 25.

23. Plant Food Supplies.—The world's supply of plant-food materials; utilization and conservation. *II;* (2). Associate Professor STEWART

Prerequisite: Agronomy 12.

25. Farm Crops.—Plant growth; structure; production and harvesting; common diseases, insects, and their control; weed seed identification; weed control; seed testing; market grades of grain; grain judging. *I* or *II;* (4).

Associate Professor BURLISON, Mr. WALWORTH, Mr. DUNGAN, Mr. PIEPER

26. Elementary Farm Mechanics.—Ropes; soldering; babbiting; belt lacing; pipe cutting; plumbing; sewage disposal; farm water, lighting, and heating systems; power transmission; elementary mechanics; equalizers. Design of a farm shop. *I* or *II;* (3). Mr. JAHR

27. Drainage Design.—Designing of tile drainage systems from level note data and contour maps; estimating; designing of outlet open ditch system for drainage districts; drainage district laws; preparing bids; advanced field work. *I;* (1-5).[1] Mr. JAHR

Prerequisite: Agronomy 1, or Civil Engineering 96, 31, or 32.

Courses for Graduates

Students taking their major work in agronomy must have had the major courses in agronomy offered to undergraduates in the University of Illinois, or their equivalent. Graduate students may specialize in soils or in crops. Courses 7, 9, 11 and 12, or the equivalent, will be required of graduates who specialize in soils and courses 7, 9, 12, and 22 or the equivalent will be required of those specializing in crops. While everyone seeking a doctor's degree with agronomy as a major will be required to have a general knowledge of the whole field of agronomy, each student is expected to prepare a thesis in some one of the divisions, soil fertility, soil physics, soil biology, plant breeding or crop production.

Students who are taking their major work in other departments and choose agronomy as a minor, must have had previously the work in chemistry, botany and other fundamental sciences prescribed for the indergraduates course in agronomy in the College of Agriculture, or the equivalent.

101. Soil Investigations.—System of soil investigations; sources of error and methods of control; interpretation of results. *Twice a week; I, II;* (*1 unit*). Associate Professor STEWART

104. Seminar in Agronomy.—Once a week; *I, II;* (*½ unit.*) Assistant Professor WHITING and others

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

112. Plant Breeding.—Experiments at this station; methods and results reported from other states and from foreign countries. *Twice a week; I, II; (1 to 2 units).* Professor SMITH

114. Crop Production.—Crop ecology; methods and results of crop production investigations. *Once a week; I, II; (½ to 2 units).* Associate Professor BURLISON

118. Investigations.—A special problem is chosen by each student. *Consultation one to five times a week; I, II; (1 to 4 units).*

Professors HOPKINS, SMITH, MOSIER, Associate Professors STEWART and BURLISON, Assistant Professor WHITING

Summer Session Courses

S 23. Plant Food Supplies.—For description see Agronomy 23. (2). Associate Professor STEWART

Prerequisite: Agronomy 12.

S 25. Farm Crops.—For description see Agronomy 25. (2). Mr. WALWORTH

S 26. Elementary Farm Mechanics.—For description see Agronomy 26. (2½). Assistant Professor WHITE

ANIMAL HUSBANDRY

HERBERT WINDSOR MUMFORD, B.S., *Professor, Animal Husbandry*
HARRY SANDS GRINDLEY, D.Sc., *Professor, Animal Nutrition*
WALTER CASTELLA COFFEY, M.S., *Professor, Sheep Husbandry*
ROBERT GRAHAM, D.V.M., B.S., *Professor, Animal Pathology*
JAMES LLOYD EDMONDS, B.S., *Assistant Professor, Horse Husbandry*
HENRY PERLY RUSK, M.S., *Assistant Professor, Cattle Husbandry*
JOHN A DETLEFSEN, D.Sc., *Assistant Professor, Genetics*
HAROLD HANSON MITCHELL, Ph.D., *Associate, Animal Nutrition*
WILLIAM HERSCHEL SMITH, M.S., *Associate, Animal Husbandry*
DANIEL OTIS BARTO, B.S., *Associate, Animal Husbandry*
WILBUR JEROME CARMICHAEL, M.S., *Associate, Animal Husbandry*
GILBERT GUSLER, B.S., *Associate, Animal Husbandry*
SLEETER BULL, M.S., *Associate, Animal Nutrition*
ROY HAROLD WILCOX, B.S., *Associate, Animal Husbandry*
ELMER ROBERTS, Ph.D., *Instructor, Genetics*
JAMES WILBUR WHISENAND, M.S., *Instructor, Animal Husbandry*
CLAUDE HARPER, B.S., *Instructor, Animal Husbandry*
EARL KIRKWOOD AUGUSTUS, B.S., *Instructor, Animal Husbandry*
JOHN BENJAMIN RICE, B.S., *Assistant, Animal Husbandry*
HENRY CARL ECKSTEIN, A.B., *Assistant, Animal Nutrition*
JAMES BRUCE HENDERSON,[1] M.S., *Assistant, Animal Husbandry*
WORTH ARTHUR ALLISON, M.S., *Assistant, Animal Husbandry*
CLINTON B OLNEY, B.S., D.V.M., *Assistant, Animal Pathology*

Courses for Undergraduates

Beef Cattle: Animal Husbandry 11a, 11b.

Breeding, Feeding, Management, and Marketing: Animal Husbandry 8, 21, 28, 29, 30, 32, 33.

General Judging: Animal Husbandry 1a, 2a, 4a, 5, 11a, 22.

Genetics: Animal Husbandry 30.

Horses: Animal Husbandry 4a, 4b.

Meat: Animal Husbandry 10, 24.

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[1] Resigned.

Nutrition: Animal Husbandry 7, 7a, 31.
Poultry: Animal Husbandry 23.
Sheep: Animal Husbandry 1a, 1b, 27.
Swine: Animal Husbandry 2a, 2b, 26.
Pathology: Animal Husbandry 34, 35.

NOTE—Students registered in advanced courses such as 10, 22, 23, 28, 29, and 32, are required to participate in tours of inspection of representative markets, farms, herds, flocks, and studs.

1a. Sheep: Breeds and Market Classes.—Breeds used for mutton and wool production; types, characteristics, and adaptability; market classes and grades of sheep and wool. Lectures; judging. *I;* (2). Professor COFFEY, Mr. HARPER

Prerequisite: Animal Husbandry 5 or its equivalent.

1b. Sheep: Breeding, Feeding, and Management.—Pure bred and grade flocks; feeding, housing, and shepherding. Lectures; reference readings. *I;* (3). Professor COFFEY, Mr. HARPER

Prerequisite: Animal Husbandry 5, 8, and 21, or their equivalents.

2a. Swine: Breeds and Market Classes.—History of the leading breeds; types, characteristics, and adaptability; market classes and grades; market reports. Lectures; judging. *II;* (2). Mr. CARMICHAEL, Mr. RICE

Prerequisite: Animal Husbandry 5 or its equivalent.

2b. Swine Husbandry.—Economic production of market and breeding hogs. Breeding, feeding, housing, care, sanitation, common diseases, and marketing. Lectures; assigned reading; quizzes. *II;* (3). Mr. CARMICHAEL, Mr. RICE

Prerequisite: Animal Husbandry 5, 8, and 21, or their equivalents.

4a. Market Classes of Horses and Mules and Breeds of Horses.—Market classes, grades, and requirements. History of the leading breeds; types, characteristics, and adaptability. Lectures; judging. *II;* (2). Assistant Professor EDMONDS

Prerequisite: Animal Husbandry 5, or its equivalent.

4b. Breeding, Feeding, and Management of Horses.—Care of stallions, mares, and foals; of work horses and drivers at labor and idle; fattening horses for market. Lectures; assigned readings. *II;* (3). Assistant Professor EDMONDS

Prerequisite: Animal Husbandry 5, 8, and 21, or their equivalents.

5. Fundamentals of Live Stock Judging.—External parts of the various kinds of live stock; score card; comparative judging; breed identification; types of farm animals. (Required in the freshman year.) *I* or *II;* (3). Mr. GUSLER and others

7. Principles of Animal Nutrition.—Feedingstuffs; chemistry; digestion and digestibility; absorption and metabolism of organic and inorganic nutrients; fats, carbohydrates, proteins, and ash; energy, metabolism, and fuel value; food requirements and feeding standards; specific value of feeds. Lectures; recitations; laboratory. *I;* (5). Professor GRINDLEY, Dr. MITCHELL

Prerequisite: Animal Husbandry 21; Chemistry 13a.

7a. Principles of Animal Nutrition.—(The same as course 7, for advanced students.) Lectures; recitations. *I;* (3). Professor GRINDLEY, Dr. MITCHELL

Prerequisite: Graduate standing, or the approval of the instructor for qualified undergraduates of junior or senior standing.

8. Principles of Breeding.—Evolution and genetics; origin of domesticated animals and plants; systematic breeding; old and new theories. (Required in the sophomore year.) *I* or *II;* (1). Assistant Professor DETLEFSEN, Dr. ROBERTS, and others

9. Investigation and Thesis.—*I* or *II*; (5-10).[1]

10. Meat.—Farm butchering, curing, and care of meats; yield, quality, and values of meat and by-products. Classes, grades, and cuts of meat in wholesale and retail markets. (The class will leave on its annual Chicago trip, Thursday morning, March 28, 1918. The cost will be about $8.00.) *II;* (3). Mr. AUGUSTUS

Prerequisite: Two years of university work.

11a. Beef Cattle.—Breeds and market classes; history of beef type; classification and value of each grade according to current market reports. Judging; lectures; quizzes; assigned readings. *I;* (2). Assistant Professor RUSK

Prerequisite: Animal Husbandry 5 or its equivalent.

11b. Beef Production.—Pure bred herds; breeding for the market; beef and milk production; cattle feeding; age, grade, breed, condition, and sex; equipment; pork and manure as by-products of beef production. Lectures; quizzes; assigned readings. *I;* (3). Assistant Professor RUSK

Prerequisite: Animal Husbandry 5, 8, and 21, or their equivalents.

21. Principles of Feeding.—Feed nutrients; classification and values of feeding stuffs; feed requirements and balanced rations for farm animals. (Required in the sophomore year.) *I* or *II;* (2). Mr. BULL, Mr. WHISENAND, and others

Prerequisite: Chemistry 1 or 1a; Chemistry 2; Animal Husbandry 5; and registration in Animal Husbandry 8.

22. Advanced Stock Judging.—Animal conformation, quality, and condition with reference to market and show yard requirements; selection for feed lot, market, and exhibition; judging at live stock shows. (The class will make an inspection trip to various live stock farms about the middle of October. The cost will not exceed $15.00.) *I;* (3). Professor MUMFORD and heads of divisions

Prerequisite: Animal Husbandry 1a, 2a, 4a, 11a, or their equivalents.

23. Poultry: Types, Breeds, and Varieties.—Exhibiting and judging; breeding; houses and equipment; feeding, hatching, and brooding; market eggs and poultry; crate-fattening and dressing; diseases and their treatment. (A limited number of short trips will be taken, the total cost of which will not exceed $10.00.) *II;* (5). Mr. BARTO

Prerequisite: Animal Husbandry 5, or its equivalent.

24. Meat.—Influence of type, condition, age, sex, and feeds on the yield and market grade of meat products. *II;* (2-5)[1]. Professor COFFEY

Prerequisite: Animal Husbandry 10, and 1a or 2a or 11a; three years' work in the University, or its equivalent.

26. Swine Husbandry.—Special problems. *II*; (2-5)[1]. Mr. CARMICHAEL

Prerequisite: Animal Husbandry 2a, 2b, three years' work in the University, or its equivalent.

27. Sheep Husbandry.—Factors determining the importance of the industry in leading sheep growing countries, particularly different parts of the United States. *II;* (2-5).[1] Professor COFFEY

Prerequisite: Animal Husbandry 1a, 1b; three years' work in the University, or its equivalent.

28. Advanced History of Breeds of Live Stock.—Horses, beef cattle, sheep, and swine. Methods of great breeders; performances and pedigrees of famous animals; breed type as exemplified in the University and other herds. Lectures; assigned

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

readings; problems. (The class will make an inspection trip to various live stock farms about the middle of October. The cost will not exceed $15.00.) *I;* (3-5).[1]
Professor Mumford and heads of divisions

Breeds offered, 1917-18

Beef cattle	Herefords, Galloways
Horses	Shires, Clydesdales, American Saddlers
Swine	Poland Chinas, Chester Whites
Sheep	Rambouillets, Oxford Downs

Breeds offered, 1918-19

Beef cattle	Shorthorns, Aberdeen Angus
Horses	Percherons, Belgians, Standard breds
Swine	Berkshires, Duroc Jerseys
Sheep	Shropshires, Southdowns

Prerequisite: "a" and "b" courses in class of live stock elected. See note at the beginning of the description of animal husbandry courses.

29. Systems of Live Stock Farming.—Management, climate, soil, topography, location; the supply of land, labor, capital, and managing ability. Planning of farms for mixed and live stock systems. (The class will visit some of the farms included in the Farm Management investigations being conducted by the department. This trip will cost about $15.00.) *II;* (2).
Assistant Professor Handschin, Mr. Wilcox

Prerequisite: Animal Husbandry 5, 8, and 21, and 6 hours' credit from 1b, 2b, 4b, or 11b; Farm Management 1. See note at beginning of description of animal husbandry courses.

30. Genetics.—Heredity, variation, biometry, and their practical application to breeding. Lectures; demonstrations; laboratory. *II;* (5).
Assistant Professor Detlefsen, Dr. Roberts

Prerequisite: Two years of university work. Before registering, students must secure the approval of the instructor.

31. Advanced Course in Animal Nutrition.—Chemistry and physiology of nutrition; nature of growth, metabolism, food requirements of animals under different conditions; investigations of agricultural experiment stations in this and other countries. Lectures; quizzes; assigned readings. *II;* (3). Dr. Mitchell

Prerequisite: Animal Husbandry 7, 7a; an elementary knowledge of organic chemistry is also desirable.

32. Marketing Live Stock.—Markets and methods of marketing live stock and their products. Advertising and sale of surplus pedigreed live stock. (Certain inspection trips required; expense about $15.00.) *II;* (2).
Professor Mumford, Mr. Wilcox

Prerequisite: Two years of university work. At least 4 credits in Animal Husbandry 1a, 2a, 4a, and 11a. See note at beginning of description of animal husbandry courses.

33. Animal Husbandry Practicums.—The operations necessary in the barn and stable management of live stock. One hour credit given for each two classes of live stock elected. *II;* (1-2).[1] Heads of divisions

Prerequisite: Limited to senior students specializing in animal husbandry.

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *1-2*, but *1*, or *2*.

34. Anatomy and Physiology of Farm Animals.—The structure and function of the animal economy (horse and cow) in health; common malformations and diseases. Lectures; assigned readings; quizzes. *I;* (2). Professor GRAHAM

Prerequisite: Sixty hours of university work.

35. Contagious Diseases of Farm Animals.—Common diseases of animals transmissible to man. Antiserums, vaccines, antitoxins, bacterins; prevention, cure, and diagnosis of animal diseases. (This class will make an inspection trip to Chicago; cost about $8.00.) Lectures; assigned readings; quizzes. *II;* (2). Professor GRAHAM

Prerequisite: Animal Husbandry 34.

Courses for Graduates

Students entering graduate work in animal husbandry must have a thoro training in the fundamental principles of the subject either in connection with or in addition to an agricultural course of study substantially equivalent to that offered in this University.

103. Live Stock Experimentation.—Objects, methods, and the sources of error in experimental work dealing with the feeding, breeding, and management of farm animals. *Once a week; I, II; (½ unit).* Professor DAVENPORT

110. Animal Nutrition.—Biochemistry, digestion, metabolism, and nutritive value of the proteins. Lectures; seminar. *Twice a week; I, II; (1 unit).* Professor GRINDLEY, Dr. MITCHELL

[**111. Animal Nutrition.**—Biochemistry, digestion, metabolism, and nutritive value of fats and lipoids, carbohydrates, and inorganic substances. Lectures; seminar. *Twice a week; I, II; (1 unit).* Alternates with course 110. Not given, 1917-18. Professor GRINDLEY, Dr. MITCHELL]

112. Research.—Opportunity is afforded to pursue investigations along the following lines:

(a) Economic factors involved in meat production. Professor MUMFORD, Professor COFFEY, Assistant Professor RUSK

(b) Systems of live stock farming. Assistant Professor HANDSCHIN

(c) The valuation of pedigrees. Professor MUMFORD

(d) Animal Nutrition. The chemistry of feeding stuffs; metabolism experiments and biochemical studies connected with the nutrition of farm animals. Professor GRINDLEY, Dr. MITCHELL

(e) Genetics. Problems in heredity and variation. Assistant Professor DETLEFSEN

(f) Factors affecting the quality, quantity, strength, and condition of wool. Professor COFFEY

(a), (b), (c), and (f), one to three times a week; (d) and (e), once a week; I, II, (1 to 2 units).

117. Genetics.—Experiments; biological and mathematical methods employed; validity of the conclusions. *Three to five times a week; I, II; (1 to 2 units).* Assistant Professor DETLEFSEN

Summer Session Courses

S 5. Fundamentals of Live Stock Judging.—For description see Animal Husbandry 5. (2½). Mr. GUSLER

S 8. Principles of Breeding.—For description see Animal Husbandry 8. (2). Dr. ROBERTS

S 22. Advanced Stock Judging.—For description see Animal Husbandry 22. (1½). Mr. GUSLER

Prerequisites: Animal Husbandry 1a, 2a, 4a, 11a, or their equivalents.

S 23. Poultry Types, Breeds and Varieties.—For description see Animal Husbandry 23. (2½). Mr. BARTO

Prerequisites: Animal Husbandry 5, or its equivalent.

ARCHITECTURE

LORING HARVEY PROVINE, B.S., A.E., *Professor, Architectural Engineering; Acting Head of the Department*
NATHAN CLIFFORD RICKER, D.Arch., *Professor*, Emeritus
NEWTON ALONZO WELLS, M.P., *Professor, Architectural Decoration*
JAMES McLAREN WHITE, B.S., *Professor, Architectural Engineering, Supervising Architect*
NATHANIEL COURTLANDT CURTIS, Ph.B., B.S., *Associate Professor, Architectural Design*
PERCY ASH, B.S., C.E., *Assistant Professor, Architectural Design*
CHARLES RICHARD CLARK, B.S., M.Arch., *Assistant Professor, Architectural Construction*
ROBERT TAYLOR JONES, B.S., *Associate, Architecture*
RHODES ROBERTSON, A.B., M.Arch., *Associate, Architectural Design*
DONALD MAHANEY ALLISON, A.B., *Associate, Architectural Design*
WILLIAM SIDNEY WOLFE, B.S., M.S., *Instructor, Architectural Engineering*
RALPH STANLEE FANNING, B.S., *Instructor, Architectural Design*
ARNOLD GEORGE SCHEELE, A.M., *Instructor, Freehand Drawing*
LEMUEL CROSS DILLENBACK,[1] A.M., *Instructor, Architectural Design*
OWEN JAMES TRAINOR SOUTHWELL, M.S., *Instructor, Architectural Design*
CYRUS EDMUND PALMER, M.S., *Instructor Architectural Engineering*
JAMES TROY PETERKIN, B.S., *Instructor, Freehand Drawing*
WILLIAM FRANK McCAUGHEY, A.B., *Instructor*
WINIFRED FEHRENKAMP, B.L.S., *Librarian*

13, 14, 15, 16. History of Architecture.—Effects of political, economic, and local conditions; influence of material, climate, structural systems; the various countries and periods; evolution of forms. Illustrated lectures; quizzes. *I, II;* (2). Assistant Professor ASH

Prerequisite: Sophomore standing in architecture or architectural engineering, or Architecture 31 and 32.

23-24. Freehand Drawing.—Charcoal drawing from the cast. Water color work. *Six hours drawing a week. I, II;* (2). Mr. SCHEELE

Prerequisite: Architecture 32.

25. Freehand Drawing.—Arrangement of form and color; rhythm and sequence; harmony and contrast. *Six hours drawing a week. I;* (2). Mr. PETERKIN

Prerequisite: Architecture 23-24.

26. Freehand Drawing.—Charcoal, pen, pencil, and water color drawing from the cast and from still life. Out-of-door sketching. *Six hours drawing a week. II;* (2). Mr. PETERKIN

Prerequisite: Architecture 23-24.

27. Freehand Drawing.—Sketching from still life; proportions. *Six hours drawing a week. I;* (2). Professor WELLS

Prerequisite: Architecture 25-26.

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[1] On leave for military service.

28. Freehand Drawing.—Water color; original decorative composition; out-of-door sketching. *Six hours drawing a week. II;* (2). Professor Wells

Prerequisite: Architecture 25-26.

31. Architectural and Freehand Drawing.—Instruments, pen, pencil, and brush; lettering; shades and shadows; perspective. Charcoal drawing from the cast. *One lecture and ten hours drawing a week. I;* (4).

Mr. Fanning, Mr. Peterkin, Mr. Scheele

Prerequisite: Registration in General Engineering Drawing 2.

32. Architectural and Freehand Drawing.—Elements of architecture; walls, mouldings, doors, windows, the Orders, vaults, roofs, stairs. Wash rendering, stereotomy, charcoal drawing from the cast. Lectures and sketching. *One lecture and ten hours drawing a week. II;* (4).

Mr. Fanning, Mr. Peterkin, Mr. Scheele

Prerequisite: Architecture 31.

33-34. Design.—(Elementary.) Rendered order and sketch problems involving simple composition; library research in elements of composition. *One lecture and nine hours drawing a week. I, II;* (3). Mr. Robertson, Mr. Allison

Prerequisite: Architecture 31, 32.

35-36. Design.—(Intermediate.) Rendered plan and sketch problems; library research in plan and interior elements. *Fifteen hours drawing a week. I, II;* (5).

Mr. Robertson, Mr. Allison

Prerequisite: Architecture 33-34.

37. Design.—(Advanced.) Original design. *Twenty-one hours drawing a week. I;* (7). Associate Professor Curtis

Prerequisite: Architecture 35-36.

38. Advanced Design or Thesis.—An extended original problem in design or construction. *Twenty-one hours drawing a week. II;* (7).

Associate Professor Curtis

Prerequisite: Architecture 37.

43. Working Drawings.—Woods; structural and decorative properties; detailing on a large scale; floors, walls, roofs, doors, windows, cornices, stairs, wainscoting, cabinet-work, interior finish. Kidder's *Building Construction, Part II. Two lectures and four hours drawing a week. I;* (3). Mr. Jones

Prerequisite: General Engineering Drawing 2; Architecture 31, 32.

44. Working Drawings.—Materials for stone masonry; kinds of masonry and external finish; tools for stone cutting; brick masonry; terra cotta; columns, beams, girders, and footings; joints and connections. Kidder's *Building Construction and Superintendence, Part I. Two lectures and four hours drawing a week. II;* (3).

Mr. Jones

Prerequisite: General Engineering Drawing 2; Architecture 31, 32, 43.

45. Graphic Statics.—Trussed roofs, steel and masonry arches, domes. The graphical representation of reactions, bending moments, shear and deflection in beams. (For architects.) *One lecture and six hours drawing a week. I;* (3).

Assistant Professor Clark, Mr. Wolfe

Prerequisite: Theoretical and Applied Mechanics 14, 15, 16. Architecture 43, 44.

46. Roofs.—Wooden and steel roofs; determination of section of members; design of joints; mill and steel skeleton construction. *One lecture and six hours drawing a week. II;* (3). Assistant Professor Clark, Mr. Wolfe

Prerequisite: Architecture 45.

55. Building Sanitation.—Plumbing, trap ventilation, removal of wastes; water closets; drains and systems of water supply; sewage disposal; water supply and fixtures in dwellings. (For architects.) Cosgrove's *Principles and Practise of Plumbing.* Recitations; lectures; designs for special problems. *II;* (1).
Mr. Jones

Prerequisite: Physics 9a-9b, 10a-10b; Architecture 43, 44.

59. Domestic Architecture.—(Given in connection with Household Science 2.) Lectures; criticism. *I.* Assistant Professor Ash, Assistant Professor Clark

60. Special Lectures.—Special lectures on architectural subjects. (For architects.) *II;* (1). Assistant Professor Clark

Prerequisite: Senior standing.

65-66. Theory of Architecture.—Influence of function on architectural form; plan and elevation; problem analysis. Lectures; research; exercises. *I, II;* (1).
Professor Wells

Prerequisite: Registration in Architecture 25, 26.

67. Theory of Form.—Arrangement of form; architectural ornament and composition, proportion, and balance. *Six hours drawing a week.* *II;* (2).
Professor Wells

Prerequisite: Senior standing in architecture.

68. Specifications.—General and special clauses and their arrangement; classifying material to facilitate writing specifications; practise in writing several sets; relations of the architect, owner, and builder; office organization; building ordinances; professional ethics. (For architects.) *I;* (3).
Professor Provine, Assistant Professor Clark

Prerequisite: Senior standing in architecture.

99. Inspection Trip.—*I;* (*no credit*).

Prerequisite: Senior standing.

Courses for Graduates

Entrance on graduate work in architecture presupposes the full undergraduate course in that subject. Semi-weekly conferences are held and additional instruction given in all courses as may be required.

101. Architectural Construction.—Design of special structures. *I, II.*
Professor Ricker, Professor Provine

102. Sanitation of Buildings.—The planning of sanitation, warming, and ventilation. *I, II.* Professor Ricker, Assistant Professor Clark

103. Advanced Architectural Graphics.—Graphic statics. Unusual types of footings, columns, and trusses. *I* or *II.* Professor Ricker, Professor Provine

104. Architectural Design.—Advanced course. *I* or *II.*
Assistant Professor Ash

105. Architectural Practise.—Contracts, specifications, and office methods; architectural jurisprudence. *I* or *II.* Professor Ricker, Professor Provine

106. Advanced Architectural History.—Special research. *I* or *II.*
Professor Ricker

ARCHITECTURAL ENGINEERING

33. Architectural Drawing.—Lettering, elements of architecture; walls, mouldings, doors, windows, shades and shadows, perspective, the Orders, vaults, roofs, stairs, wash rendering, stereotomy, charcoal, drawing from the cast. Lectures and sketching. *Nine hours drawing a week.* *I;* (3). Mr. Southwell

Prerequisite: General Engineering Drawing 1, 2.

34. **Design.**—(Elementary.) Rendered order and sketch problems; library research. *Nine hours drawing a week. II;* (3). Mr. SOUTHWELL

Prerequisite: Architectural Engineering 33.

35-36. **Design.**—(Intermediate.) Rendered plan and sketch problems; library research. *Nine hours drawing a week. I, II;* (3). Mr. DILLENBACK

Prerequisite: Architectural Engineering 33, 34.

43. **Working Drawings.**—Woods; structural and decorative properties; floors, walls, roofs, doors, windows, cornices, stairs, wainscoting, cabinet-work, interior finish. (For architectural engineers.) *One recitation and three hours drawing a week. I;* (2). Mr. JONES

Prerequisite: Architectural Engineering 31; General Engineering Drawing 2.

44. **Working Drawings.**—Materials for stone masonry; kinds of masonry and external finish; tools for stone cutting; brick masonry; terra cotta; columns, beams, girders; joints and connections. *One recitation and three hours drawing a week. II;* (2). Mr. JONES

Prerequisite: Architectural Engineering 33, 43; General Engineering Drawing 1, 2.

45. **Graphic Statics.**—Elements, and applications to forces; beams under fixed and moving loads. *One lecture and six hours drawing a week. I;* (3).
Assistant Professor CLARK, Mr. PALMER

Prerequisite: Theoretical and Applied Mechanics 20; registration in Theoretical and Applied Mechanics 25. Architectural Engineering 43, 44.

46. **Advanced Graphic Statics.**—The analysis of masonry arches, domes, and vaults; large and unusual forms of roof trusses. *One lecture and six hours drawing a week. II;* (3). Assistant Professor CLARK, Mr. PALMER

Prerequisite: Architectural Engineering 45.

47. **Architectural Engineering.**—Design and working drawings of trusses, members and joints, plate girders, chimneys; wind bracing. *Fifteen hours drawing a week or the equivalent. I;* (5). Mr. PALMER

Prerequisite: Theoretical and Applied Mechanics 26; Architectural Engineering 44, 46.

48. **Architectural Engineering.**—Design and detail of footings; framed structures; working drawings. *Fifteen hours drawing a week or the equivalent. II;* (5).
Mr. PALMER

Prerequisite: Architectural Engineering 47.

57. **Fireproof Construction.**—Principles and design; advantages of each type. *Two lectures or recitations a week. I;* (2). Assistant Professor CLARK, Mr. WOLFE

Prerequisite: Theoretical and Applied Mechanics 26; Architectural Engineering 44, 46; registration in Architectural Engineering 47.

58. **Fireproof Construction.**—(Continuation of first semester's work.) Details and working drawings. *Six hours drawing a week. II;* (2).
Assistant Professor CLARK, Mr. WOLFE

Prerequisite: Architectural Engineering 47, 57; registration in course 48.

67. **Building Sanitation.**—Plumbing, trap ventilation, removal of wastes; water closets; drains and systems of water supply; sewage disposal; water supply and fixtures. (For architectural engineers.) Cosgrove's *Principles and Practise of Plumbing.* Recitations, lectures, and quizzes; designs for special problems. *II;* (2). Mr. JONES

Prerequisite: Physics 1a-3a, 1b-3b. Architectural Engineering 43, 44.

68. **Estimates and Specifications.**—Methods of estimating, illustrated by problems; specifications, their general and special clauses, and arrangement; relations

of architect, owner, and builder. (For architectural engineers.) *Four recitations a week. II;* (4). Professor PROVINE, Assistant Professor CLARK

Prerequisite: Senior standing in architectural engineering.

99. Inspection Trip.—*I; (no credit).*

Prerequisite: Senior standing.

ART AND DESIGN

EDWARD JOHN LAKE, B.S., *Assistant Professor*
CHARLES EARL BRADBURY, B.P., *Associate*
MARY MINERVA WETMORE, *Instructor*
GIDEON ROBERT FORBES, M.L.A., *Instructor*

1. Freehand Drawing.—Drawing in charcoal and pencil; perspective; light, shadows, shade, and reflections in monochrome; graphical representation. *I* or *II;* (3). Assistant Professor LAKE, Mr. BRADBURY, Mr. FORBES

2. Advanced Freehand Drawing.—Drawing in tone; values, composition, and technical expression. Outdoor sketching. *II;* (2). Mr. BRADBURY

Prerequisite: Art and Design 1.

3a-3b. Anatomical Representation.—Drawing from plaster models and from life; proportion, construction, composition, and action in the representation of the human figure. Either semester may be taken separately. *I, II;* (3). Mr. BRADBURY

Prerequisite: Art and Design 1.

4a-4b. Water Color Painting.—Still-life; flowers, and sketching out-doors, with application to pictorial and decorative art. *I, II;* (3). Miss WETMORE

Prerequisite: Art and Design 1, 2.

5a-5b. Drawing from Life.—Monochrome, with application to pictorial and decorative purposes. *I, II;* (3). Miss WETMORE

Prerequisite: Art and Design 1, 3a or 3b.

6a-6b. Portrait in Oil Colors.—Painting in oil colors from costumed model; portrait and character study. *I, II;* (3). Miss WETMORE

Prerequisite: Art and Design 1, 3a or 3b, 5a-5b.

6c. Portrait in Oil Colors.—(Advanced course.) A continuation of 6a-6b. *II;* (3). Miss WETMORE

Prerequisite: Art and Design 1, 3a or 3b, 5a-5b.

7a-7b. Still-Life in Oil Colors.—Still-life; flowers and sketching out-doors, with application to pictorial and decorative art. *I, II;* (3). Miss WETMORE

Prerequisite: Art and Design 1, 2.

7c. Still-Life in Oil Colors.—(Advanced course.) A continuation of 7a-7b. *II;* (3). Miss WETMORE

Prerequisite: Art and Design 1, 2.

8a-8b. Modeling.—Clay modeling of anatomical and decorative forms; plaster molds and models; sculptural art. *I, II;* (3). Assistant Professor LAKE

Prerequisite: Art and Design 1.

10. Sketching.—Practise in pen, pencil, wash, charcoal, pastel; requirements for reproduction; technical methods in sketching from still-life, landscape, and figure. *II;* (1). Mr. BRADBURY

Prerequisite: Art and Design 1.

12. Design.—Theory of pure design and the effect of material on execution; fitness of various forms of media for different sorts of design; space division and space relations; color; color schemes and exercises; conventionalization of natural forms for various functions; practise in execution. *I* or *II;* (2). Mr. FORBES

Prerequisite: Art and Design 1.

14. **Applied Design.**—(Practise.) Organic design as applied in crafts as stencil, batik, block printing, wood carving, painted boxes, leather applique, embroidery, or in commercial art, as posters, bookplates, book-covers; conventional landscape painting. *I* or *II;* (3). Mr. FORBES

Prerequisite: Art and Design 1, 12.

19. **History of Fine Arts.**—The periods and styles of the arts of architecture, sculpture, and painting previous to the Italian Renaissance. *I;* (2). Assistant Professor LAKE

Prerequisite: One year of college work.

20. **History of the Fine Arts.**—The periods and styles of the arts of architecture, sculpture, and painting of the Italian Renaissance and to the present time. *II;* (2). Assistant Professor LAKE

Prerequisite: One year of college work.

Summer Session Courses

S 1. **Elementary.**—Form drawing from still-life, cast, and nature; outline and shading in pencil, charcoal, and crayon; lectures on perspective. (2 or 3). Assistant Professor LAKE

S 12. **Design.**—(2). Assistant Professor LAKE

S 20. **History of the Fine Arts.**—(2). Assistant Professor LAKE

ASSYRIAN

(See ORIENTAL LANGUAGES AND LITERATURE.)

ASTRONOMY

JOEL STEBBINS, Ph.D., *Professor*
ELMER DERSHEM, Ph.D., *Instructor*

No major for undergraduates is offered in astronomy. Students may well make mathematics or physics their major, and take Astronomy 7, 8, 14, and 15 as a minor.

Upper classmen without mathematical training may elect Astronomy 1. Astronomy 4 is for beginners but requires trigonometry. A student may not receive credit for both courses.

Courses for Undergraduates

1. **Elementary Astronomy.**—Lectures; recitations; one evening a week at the observatory. *I;* (3). Professor STEBBINS, Dr. DERSHEM

Prerequisite: Sophomore standing.

3. **Astronomy for Engineers.**—Rough and accurate determinations of latitude, azimuth, and time, especially with the ordinary surveyor's transit; the art of computing. *II;* (3). Professor STEBBINS

Prerequisite: Junior standing.

4. **General Astronomy.**—Lectures; recitations; two evenings a week at the observatory. *II;* (5). Dr. DERSHEM

Prerequisite: Mathematics 4.

For Advanced Undergraduates and Graduates

7-8. Theoretical Astronomy.—Celestial mechanics; theory of orbits; perturbations; canonical transformations. *I, II;* (3). Professor STEBBINS

Prerequisite: Mathematics 9.

14. Observational Astronomy.—The working methods of an astronomical observatory; individual problems. *II;* (3). Professor STEBBINS

Prerequisite: Astronomy 15.

[**15. Geodetic Astronomy.**—The sextant, transit, and zenith telescope; methods similar to those of the United States Coast Survey. *I;* (3). Not given, 1917-18. Professor STEBBINS

Prerequisite: Mathematics 7.]

Courses for Graduates

[**101. Seminar and Thesis.**—*Three times a week; I, II;* (*1 unit*). Not given, 1917-18. Professor STEBBINS]

[**102. Stellar Astronomy.**—Orbits of binary stars; variable stars; theoretical photometry. *Three times a week. I, II;* (*1 unit*). Not given, 1917-18. Professor STEBBINS]

BACTERIOLOGY

(See also BOTANY.)

JOEL ANDREW SPERRY,[1] II, Ph.D., *Associate*
FRED WILBUR TANNER, Ph.D., *Instructor*
STEPHEN ALBERT WALSER,[2] B.S., *Assistant*
RUTH SCOVELL FUNK, A.B., *Assistant*

NOTE.—No major is offered for the present in bacteriology for undergraduates.

1. Elementary Bacteriology.—Laboratory methods; technic and observations on the morphology and general physiology of bacteria and allied microorganisms. Open only to students in the College of Agriculture and the Medical curriculum. *I;* (3). Dr. SPERRY

Prerequisite: Chemistry 3a.

5. Introductory Bacteriology.—Morphology and physiology of bacteria and related microorganisms; technic of cultivation and observation. *I* or *II;* (5). Dr. TANNER, Mr. WALSER

Prerequisite: Chemistry 2a.

6. Bacteriology for Sanitary Engineers.—Bacteriological and microscopical methods applied to the examination of water and sewage. Theories of filtration, sterilization, and filter control. *I;* (2½). Dr. SPERRY

Prerequisite: Chemistry 10b.

8. Applied Bacteriology.—Decay of organic matter in nature; soil and sewage bacteria; food bacteria; water bacteria; pathogenic bacteria. Laboratory; lectures; assigned readings; reports. *II;* (5). Dr. TANNER, Mr. WALSER

Prerequisite: Bacteriology 5 or its equivalent; Chemistry 9.

Courses for Advanced Undergraduates and Graduates

18a-18b. Journal Meeting.—Required of all graduate students who major in general and pathological bacteriology. *I, II;* (1). Dr. SPERRY

Prerequisite: Bacteriology 5, or equivalent.

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[1] On leave for military service.

[2] Resigned, December, 1917.

20. General Bacteriology.—(For advanced students, and graduate students who do not major in bacteriology.) Laboratory methods, technic of cultivation and observation, and study of biochemical reactions. Laboratory; lectures; assigned readings; reports from Lafar: *Handbuch der technischen Mykologie*, and Kruse: *Allegemeine Mikrobiologie*. Replaces Bacteriology 19. *I;* (5).
Dr. Tanner

Prerequisite: Two years of college chemistry and senior standing.

26. Pathological Bacteriology.—Cultural and morphological characteristics of disease-producing organisms. Theories of immunity and serum reactions. Routine diagnostic procedure. *II;* (3). Dr. Sperry, Mr. Walser

Prerequisite: Bacteriology 1 or 5; junior standing.

27. Epidemiology.—The ways in which communicable diseases are spread; methods of control. Lectures; assigned readings and reports. *I;* (2).
Dr. Sperry

Prerequisite: Bacteriology 5; junior standing.

Courses for Graduates

The work outlined below is open only to graduate students who have had at least one year's work in bacteriology, and satisfactory training in chemistry.

103. Physiology of Bacteria.—The facts and theories of fermentation and growth and death of bacteria. *I; (1 unit).* Dr. Sperry

105. Classification of Bacteria.—Variability of species; characters; mutations; standard and biometrical classifications. *II; (1 unit).* Dr. Sperry

107. Research in Bacteriology.—This course is designed especially for those students who are taking a major in bacteriology either for the doctor's degree or the master's degree. Thesis work may be taken in any of the fields in bacteriology indicated below. *Once a week; I, II; (½ to 4 units).*

General bacteriology	Dr. Sperry
Dairy bacteriology	Professor Harding
Pathogenic bacteriology	Dr. Sperry
Plant pathology	Professor Stevens
Water and sewage bacteriology	Professor Bartow

BANKING

(See Economics.)

BIOLOGY

(See Botany, Entomology, Physiology, and Zoology.)

BOTANY

(See also Bacteriology.)

William Trelease, D.Sc., LL.D., *Professor*
Charles Frederick Hottes, Ph.D., *Professor*
Frank Lincoln Stevens, Ph.D., *Professor*
Joel Andrew Sperry,[1] II, Ph.D., *Associate (Bacteriology)*
Walter Byron McDougall, Ph.D., *Associate*
Stella Mary Hague, Ph.D., *Instructor*
Fred Wilbur Tanner, Ph.D., *Instructor (Bacteriology)*
Nora Elizabeth Dalbey, A.M., *Assistant*
Forrest Ellwood Kempton, M.S., *Assistant*

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[1] On leave for military service.

William Eugene Pickler, A.B., *Assistant*
Lee Ellis Miles, A.B., *Assistant*
Richard Alonzo Gantz, A.B., *Assistant*
Truman George Yuncker, A.M., *Assistant*
Mary Emma Renich, A.M., *Assistant*
Pearl Forest Grove, A.B., *Assistant*
Aaron Raymond Kienholz, B.S., *Research Assistant*
Stephen Albert Walser,[1] B.S., *Assistant (Bacteriology)*
Ruth Scovell Funk, A.B., *Assistant (Bacteriology)*
Edwin Rollin Spencer, A.M., *Graduate Assistant*
Ray Nelson, M.S., *Graduate Assistant*

Major: 20 hours exclusive of Botany 1, and 4, made up of courses grouped along one of six lines, according to the suggestions given below.

Minor: 20 hours chosen from chemistry, entomology (exclusive of 1a and 1b), geology, physics, physiology, and zoology, in consultation with the department of botany. At least eight hours must be offered in one subject.

Courses offered are of four types; the first intended to meet the needs of beginners; the second laying a foundation for methods of accuracy in observation, manipulation, and experimentation through the study of some fundamentally important subdivision of the science; the third giving practise in methods of investigation by the study of advanced problems varied to suit the needs and interests of the student; and the fourth teaching independent research by means of thesis subjects leading to the discovery of new facts or laws.

The work of any semester may be credited separately except when a problem is left incomplete in one of the courses open to graduates.

For the convenience of undergraduates in the College of Liberal Arts and Sciences who elect major work in botany the following combinations of courses are suggested:—(a) General; 2a, 4a, 23, 27a, and 27b; (b) Specializing in morphology; 2a, 2b, 3a, 4a, or 4b, or 24; (c) Specializing in pathology; 2a or 3a, 7a, 7b, 28a or 28b, 4a, or 17a-17b, or 21; (d) Specializing in physiology; 3a, 27a-27b, 9a or 9b; (e) Specializing in taxonomy; 2a, 4a or 4b, 16a-16b, or 17a-17b, or 26a-26b, or 28a-28b; (f) Specializing in ecology; 4a, 23, 24, 25a-25b, and 27a, or 27b.

Students taking botany as a foundation for agronomy or horticulture are advised to select courses 27a, 4a, 7a, and advanced work on some special topic or topics under courses 7b, 9, 17a-17b, or 22b. Students who expect to teach botany are advised to elect 2a, 4a, 23, 27a or 27b, and advanced work in one or more of the special courses 9a-9b, 16a-16b, 17a-17b, or 25a-25b.

The prerequisite for major work in botany in the Graduate School is 20 semester hours in botany or 15 hours in botany plus 5 hours in zoology or entomology.

Courses for Undergraduates

1. **General Botany.**—The structure, physiology, natural history, and uses of plants. Lectures, quiz, laboratory. *Students are advised to complete elementary chemistry before taking this course. I* or *II;* (5).

Professor Trelease, Dr. McDougall, and assistants

2a. **Morphology of Thallophytes.**—The lower plants. Laboratory. *I*; (5).

Dr. Hague

Prerequisite: Botany 1.

2b. **Morphology of Cormophytes.**—The higher plants. Laboratory. *II*; (5).

Dr. Hague

Prerequisite: Botany 1.

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[1] Resigned, December, 1917.

3a. Plant Anatomy, Histology, and Technic.—Plant structure; protoplasts and their parts: behavior and relations of the nucleus; fixing, sectioning, staining, and examining tissues: modeling from serial sections; photo-micrography. *II;* (5). Professor HOTTES

Prerequisite: Botany 1.

4. The Local Flora.—Morphology, identification, and classification of wild plants. Laboratory; field. (For students desiring acquaintance with the plants of Illinois, and especially for those qualifying as teachers in the public schools.) *II;* (3). Dr. HAGUE

Prerequisite: Entrance botany or its equivalent.

4a. Taxonomy of Cormophytes.—Structure, identification, and classification of higher plants. Flowering plants. Laboratory. *II;* (5). Professor TRELEASE

Prerequisite: Botany 1.

4b. Taxonomy of Algae and Bryophytes.—Structure, identification, and classification. *I;* (5). Dr. HAGUE

Prerequisite: Botany 1.

4d. Trees and Shrubs of the Campus.—The woody plants most used for decorative purposes. *I;* (3). Professor TRELEASE

Prerequisite: Botany 1.

7a. Plant Pathology.—Causal agents, symptoms, diagnosis, and treatment. *I* or *II;* (5). Professor STEVENS

Prerequisite: Botany 1.

20. Plant Diseases.—More important diseases of commonly cultivated plants, diagnosis, and treatment. Lectures; laboratory. (Credit in the College of Agriculture only.) *II;* (3). Professor STEVENS

Prerequisite: Botany 1.

21. Crop Diseases.—Structure, identification, and treatment. *I;* (3). Professor STEVENS

Prerequisite: Botany 20 or 7a.

23. Plant Ecology.—The life of plants in their natural habitats, in relation to environment, to animals, and to each other. Lectures; laboratory; field work. *I;* (3). Dr. McDOUGALL

Prerequisite: Botany 1.

24. Taxonomy and Ecology of the Higher Fungi.—Structure, identification, classification, and ecological relations. Edible and poisonous mushrooms. Lectures; laboratory; field work. *II;* (3). - Dr. McDOUGALL

Prerequisite: Botany 1.

27a. Plant Physiology.—The absorption of materials and their transformation within the organism; production and use of food. *I;* (5). Professor HOTTES

Prerequisite: Botany 1.

27b. Plant Physiology.—The response of the plant to external stimuli. *II;* (3). Professor HOTTES

Prerequisite: Botany 1.

Courses for Advanced Undergraduates and Graduates

Students who take courses open for credit to graduates are advised to register also for Botany 10a-10b, the weekly meeting devoted to current literature in botany, which is obligatory for candidates for an advanced degree with botany as a major subject.

Candidates for advanced degrees in botany must offer for admission to the graduate courses at least 20 hours of college work in botany.

Graduate students who elect botany for minor credit must offer the prerequisite for courses which they take for graduate credit.

7b. Methods in the Study of Fungi.—Methods of isolation, cultivation, and inoculation of fungi and bacteria. *II;* (5). Professor STEVENS

Prerequisite: Ten hours of botany, including Botany 7a; junior standing.

9a-9b. Plant Anatomy or Physiology.—Problems for those specializing either in anatomy with technic, or in physiology, or in the application of these to plant breeding, crop production, and forestry. *I, II;* (3 to 5).[1] Professor HOTTES

Prerequisite: 10 hours of botany, including Botany 27a or 27b; junior standing.

14a-14b. Heredity, Variation, Evolution.—Cells and members of plants; adaptations and changes; mechanism of heredity; evolution. *I, II; 2 hours.* Professor HOTTES

10a-10b. Current Botanical Literature.—A weekly review covering the field of botany; supplementary to the various seminar conferences. *I, II;* (1).

Professor TRELEASE, Professor HOTTES, Professor STEVENS, Dr. HAGUE, Dr. MCDOUGALL

Prerequisite: Concurrent taking of some course in botany open for graduate credit.

16a-16b. Taxonomy and Morphology of Algae and Bryophytes.—Advanced practise on selected groups. *I, II;* (3 to 5).[1] Dr. HAGUE

Prerequisite: 10 hours of botany, including 2a or 4b; junior standing. For graduate students in chemistry, 5 hours of biology and 10 hours of physical science, including manipulation of instruments, or 15 hours of physical science.

17a-17b. Taxonomy of Cormophytes.—Advanced practise on selected taxonomic or economic groups; genera or families of Illinois plants, or plants economically important as weeds, forest resources, adjuncts to medicine, farm, orchard, or garden crops, or as the basis of floriculture, landscape architecture, street shading, or other decorative planting. *I, II;* (3 to 5).[1] Professor TRELEASE

Prerequisite: 10 hours of botany, including Botany 4a; junior standing.

22a. Morbid Histology.—The parasites of plant tissues and their histology in condition of disease. *I;* (3 to 5).[1] Professor STEVENS

Prerequisite: Botany 3a and 7a or 7b; junior standing.

22b. Groups of Fungi and Crop Diseases.—*II;* (3 to 5).[1] Professor STEVENS

Prerequisite: 10 hours of botany, including 7a or 7b; junior standing.

25a-25b. Plant Ecology.—Advanced studies in the ecology of plants or of plant communities. *I, II;* (3 to 5).[1] Dr. MCDOUGALL

Prerequisite: Botany 23 and 27a; junior standing.

[**26a-26b. Taxonomy of the Higher Fungi.**—Advanced practise on selected groups. *I, II;* (3 to 5).[1] Not given, 1917-18.]

28a-28b. Taxonomy of Economic Fungi.—Advanced practise on selected groups of parasitic fungi. *I, II;* (3 to 5).[1] Professor STEVENS

Prerequisite: 10 hours of Botany, including Botany 7a; junior standing.

Courses for Graduates

101. Individual Plant Development.—The influence of external agents on the cell. Special subjects for investigation. Reports and discussions of current literature and research results. *I, II;* (*½ to 2 units*). Professor HOTTES

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

102. **Physiology.**—The effects of external stimuli on growth and movement. Special subjects for investigation. Reports and discussions of current literature and research results. *I, II; (½ to 2 units).* Professor HOTTES

104. **Mycology.**—Fungi. Individual assignments of subjects and problems in field and laboratory. *I, II; (½ to 2 units).* Professor STEVENS

106. **Plant Pathology.**—Diseases of plants, and disease agents. Special subjects. *I, II; (½ to 2 units).* Professor STEVENS

108. **Taxonomy.**—Monographic studies of critical groups. *I, II; (½ to 2 units).* Professor TRELEASE

109. **Ecology.**—The interrelations of plants with their environment. Individual subjects for investigation. *I, II; (½ to 2 units).* Dr. MCDOUGALL

Summer Session Courses

(For description of courses, wholly or in part, see corresponding numbers in the description of courses given in the regular session.)

S 4. **The Local Flora.**—(3). Dr. MCDOUGALL

Prerequisite: Entrance Botany or its equivalent.

S 23. **Plant Ecology.**—(3). Dr. MCDOUGALL

Prerequisite: Botany 1 or its equivalent.

S 27a. **Plant Physiology.**—(4). Professor HOTTES

Prerequisite: Botany 1 or its equivalent.

S 9b. **Plant Physiology.**—(3 to 5).[1] Professor HOTTES

Prerequisite: 10 hours of Botany including 27a or its equivalent; junior standing.

S 25. **Plant Ecology.**—(3 to 5).[1] Dr. MCDOUGALL

Prerequisite: 10 hours of botany including Botany 23, or its equivalent; junior standing.

S 102. **Physiology.**—(3 to 5).[1] Professor HOTTES

BUSINESS LAW

(See BUSINESS ORGANIZATION AND OPERATION.)

BUSINESS ORGANIZATION AND OPERATION

(Including ACCOUNTANCY and BUSINESS LAW)

LEWIS EMANUEL YOUNG,[2] Ph.D., *Associate Professor*

ROBERT ENOCH HIERONYMUS, A.M., LL.D., *Community Adviser; lecturer on commercial and civic organizations*

HIRAM THOMPSON SCOVILL, A.B., *Assistant Professor*

HARRISON MCJOHNSTON, A.M., *Associate*

ANANIAS CHARLES LITTLETON, A.B., *Instructor*

CHARLES LE DEUC, LL.B., Ph.D., B.A.M., *Instructor*

WILLIAM EVERETT BRITTON, A.M., J.D., *Instructor*

LLOYD MOREY, A.B., C.P.A., *Instructor*

GEORGE HILLIS NEWLOVE,[3] A.M., *Assistant*

ROGER FRANK LITTLE, A.B., LL.B., *Assistant* (Business Law)

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

[2] On leave of absence for military service.

[3] Resigned, January 31, 1918.

A. ACCOUNTANCY

Courses for Undergraduates

1a-1b. Principles of Accounting.—Accounting and bookkeeping; double entry; fundamental accounts and books. *Students who present one unit of bookkeeping for entrance will not be allowed credit for 1a and should register in the second semester in 1b.* Except in case of such students, credit is not given for either 1a or 1b separately. *I, II;* (3). Mr. LITTLETON, Dr. LE DEUC, Mr. NEWLOVE

2a-2b. Advanced Accounting and Auditing.—Partnership and corporation accounts, depreciation, goodwill, reserves, and sinking funds; special financial statements, reading balance sheets, illustrative problems. Credit is not given for either semester separately. *I, II;* (3).

Assistant Professor SCOVILL, Mr. LITTLETON, Dr. LE DEUC

Prerequisite: Accountancy 1a-1b; Economics 7 or 26, 22 or 27; registration or credit in Economics 1.

[**5a-5b. C. P. A. Problems.**—Representative problems; theory and auditing. Credit is not given for either semester separately. *I, II;* (2). Not given, 1917-18.

Prerequisite: Accountancy 3a-3b.]

10. Shop Management and Shop Cost Records.—Cooperation between shop and cost departments; preparation and use of cost records; estimation of costs on contracts and calculation of profits. *II;* (2). Assistant Professor SCOVILL

Prerequisite: Open only to students in engineering who have had Economics 1 or 2.

11. Farming Accounting.—Accounting and distribution of costs as applied to farm operations; investment of funds. *I;* (3).

Assistant Professor SCOVILL, Mr. NEWLOVE

Prerequisite: Open only to students in agriculture who have had Economics 1 or 2.

Courses for Advanced Undergraduates and Graduates

3a-3b. Accounting Problems and Auditing.—Consolidated balance sheets; liquidation; the auditor's duties; schedules and reports. Credit is not given for either semester separately. *I, II;* (3). Assistant Professor SCOVILL

Prerequisite: Accountancy 2a-2b; Economics 3; credit or registration in Business Organization and Operation 1.

4a-4b. Cost Accounting.—Cost accounting applied to factory procedure, overhead expense, installation and control of cost systems, presentation of cost data: manufacturing efficiency; construction of cost systems. *I, II;* (2).

Assistant Professor SCOVILL

Prerequisite: Accountancy 2a-2b, Economics 1. For the current year, open also to seniors who have had Accountancy 1a-1b.

13a-13b. Governmental Accounting.—Accounts and systems of institutions and municipalities, and of the state and federal governments. Organization; procedure; budget, accounts and records, reports, audits; purchasing and storekeeping; training for Federal service. *I, II;* (2). Mr. MOREY

Prerequisite: Accountancy 2a-2b.

Summer Session Courses

S 1a. Principles of Accounting.—Accounting and bookkeeping. Accounting procedure. (3). Mr. SCOVILL

Equivalent: Accountancy 1a.

S 15. Teachers' Course in Accounting.—Methods of approach; adjustments, reserves, depreciation, goodwill, system-building. (Primarily for high-school teachers; others admitted by consent of instructor.) (2). Mr. Scovill

Prerequisite: One year of high-school bookkeeping or its equivalent.

B. BUSINESS ORGANIZATION AND OPERATION

Courses for Undergraduates

1. **Business Organization and Operation.**—Individual proprietorship, partnership, and cooperation; organizing a business; organization and efficiency; divisions and departments; departmental responsibility and authority, routine, and discipline. *I;* (3). Professor Robinson,[1] Mr. Dreesen[1]

Prerequisite: Economics 1 and Accountancy 2a-2b.

2. **Organization and Control of Mercantile Distribution.**—Organization and management of wholesale and retail establishments; supervision and control of mercantile distribution by business associations, consumers, and political units. *II;* (2). Mr. Dreesen[1]

Prerequisite: Business Organization and Operation 1; Economics 28.

[3. **Business Procedure.**—Cash and trade discounts; commissions; interest and discounts; checks, notes, drafts, and other instruments of credit and exchange; rules and procedure of banking institutions; mercantile and credit agencies. Office organization and management. *I;* (2). Not given, 1917-18.

Prerequisite: Business Organization and Operation 2.]

7. **Salesmanship.**—Modern sales organizations; selling problems of manufacturers, wholesalers, and retailers; management of salesmen; the practise of individual salesmen. *I;* (2). Mr. McJohnston

Prerequisite: Economics 1; Business Organization and Operation 1.

8. **Advertising.**—Cooperation of advertising and personal selling; special problems; sales campaigns; media; space buying; writing copy. *II;* (2). Mr. McJohnston

Prerequisite: Business Organization and Operation 7.

[9. **Commercial and Civic Organizations.**—(For students preparing for positions as secretaries of commercial or agricultural associations, civic or welfare clubs, and similar organizations.) *II;* (1). Not given, 1917-18. Dr. Hieronymus

Prerequisite: Economics 1, Business Organization and Operation 2 or Economics 28; or Economics 2 and Farm Management 1; or Economics 1, Political Science 4, and Sociology 8.]

[10. **Organization and Operation of Newspaper Publishing.**—Growth in the United States; number, kinds, and distribution of newspapers; national organization; buying and selling; advertising; circulation; cost accounting and office systems; shop management and labor problems. (For students specializing in journalism.) *II;* (2). Not given, 1917-18.

Prerequisite: Economics 1 or 2; junior standing.]

Course for Advanced Undergraduates and Graduates

[4. **Industrial Organization and Management.**—Organization and administrative policy; supervision and management of industries and industrial units. Relations to labor, the community, and law. *II;* (2). Not given, 1917-18.

Prerequisite: Business Organization and Operation 2. Senior engineering students who have had Economics 1 or 2 may be admitted by permission of the instructor.]

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[1] From Department of Economics.

Courses for Graduates

[101. **Regulation and Control of Mercantile Distribution.**—Federal, state, and local regulation of mercantile business; unfair competition: trade agreements; trade mark; inspection of mercantile establishments; pure food acts; control over weights and measures, packing, storage, and shipment. *Twice a week. I, II;* (*1 unit*). Not given, 1917-18.]

[102. **Scientific Management.**—The history of the scientific management movement; critical study of the proposed systems; results of the application of scientific principles in the management of various types of business enterprise. *Twice a week; I, II;* (*1 unit*). Not given, 1917-18.]

Summer Session Course

S 1. **Business Organization and Operation.**—Partnerships, joint stock companies, corporations, trusts, pools, and combinations; regulation and control; rights and liabilities of members and officers, rights of creditors; problems in internal organization and conduct. (Not accepted for credit for students in the College of Commerce and Business Administration.) (2). Dr. BRITTON

C. BUSINESS LAW

Courses for Undergraduates

1a-1b. **Commercial Law.**—Contracts; negotiable instruments; agency; partnerships; business corporations; sales of personal property; bailments and carriers; guaranty and suretyship; insurance. *I, II;* (3). Dr. BRITTON

Prerequisite: Sixty hours of university credit, including Economics 1 and Accountancy 1a-1b.

2. **Elementary Law.**—Contracts; leases; landed property. (Open to junior and senior students in agriculture only.) *II;* (3). Mr LITTLE

Prerequisite: Economics 1 or 2.

3. **Business Law.**—Contracts; negotiable instruments; agency; partnerships; corporations; sales of personal property; bailments and carriers; guaranty and suretyship; insurance; real property; landlord and tenant. (Open to junior and senior students in engineering only.) *II;* (3). Dr. BRITTON

Prerequisite: Economics 1 or 2.

Summer Session Course

S 1. **Commercial Law.**—Contracts; agency; sales; negotiable instruments; cases; readings and lectures. (Not accepted for credit for students in the College of Commerce and Business Administration.) (2). Dr. BRITTON

CERAMIC ENGINEERING

EDWARD WIGHT WASHBURN, Ph.D., *Professor, Ceramic Chemistry; Head of the Department*

CULLEN WARNER PARMELEE, B.S., *Professor*

RALPH KENT HURSH, B.S., *Assistant Professor*

JOHN E SEABRIGHT B.S., *Instructor*

EARL EMANUEL LIBMAN, B.S., *Assistant*

FRANK FARNSWORTH FOOTITT, M.S., *Research Assistant, Engineering Experiment Station*

The courses offered by the department of ceramic engineering are designed to give a technical knowledge of the composition and properties of materials used in the manufacture of claywares, cements, glasses, and enamels, and to acquaint the student with the construction, equipment, and operation of ceramic plants.

Graduates of courses other than ceramic engineering who have the necessary prerequisites may take the following courses for minor credit: 3, 5, 6, 8, 10, 13, 15, 16, 18, 19, and 20.

Courses for Undergraduates

1. **Ceramic Materials.**—The properties of clays and other ceramic materials; identification of the varieties used in practical work. Lectures; laboratory. *I;* (3). Professor PARMELEE, Mr. LIBMAN

Prerequisite: Chemistry 4.

2. **Winning and Preparation of Clays.**—Machinery and processes used in preparing clays for market or manufacture; cost data. *I;* (3). Assistant Professor HURSH

Prerequisite: Registration in Ceramic Engineering 1.

3. **Industrial Calculations.**—Chemical and physical calculations applying to the operation of furnaces, kilns, and dryers, temperature measurements; ceramic stoichiometry. *II;* (3). Assistant Professor HURSH

Prerequisite: Ceramic Engineering 1, 2; Physics 1a-1b and 3a-3b.

4. **Drying and Burning.**—Clay wares; types of construction of industrial dryers and kiln plants; chemical and physical processes. *I;* (4). Assistant Professor HURSH

Prerequisite: Ceramic Engineering 1, 2, 3.

5. **Ceramic Bodies.**—Composition and properties of mixtures; effects of ingredients; special bodies. Lectures; laboratory. *II;* (5). Professor PARMELEE, Mr. LIBMAN

Prerequisite: Ceramic Engineering 1, 2.

6. **Glazes.**—Production of glazes and enamels; limits of composition; classification; properties and defects; effect of variation in composition; modes of application. Lectures; laboratory. *I;* (6). Professor PARMELEE, Mr. LIBMAN

Prerequisite: Ceramic Engineering 3, 5.

8. **Glass.**—Raw materials, preparation, compounding, melting, and shaping; chemistry of the manufacture and decoration of vitreous silicates. Lectures. *II;* (2). Professor WASHBURN

Prerequisite: Ceramic Engineering 6.

9. **Ceramic Construction.**—Plans, specifications, and estimates for ceramic equipment and industrial plants. *II;* (4). Assistant Professor HURSH

Prerequisite: General Engineering Drawing 2; Ceramic Engineering 3, 4.

10. **Cements.**—Cements, limes, plasters; composition; reactions; methods of manufacture and testing. *I;* (3). Assistant Professor HURSH

Prerequisite: Ceramic Engineering 1, 2, 3.

11. **Thesis.**—*II;* (3 to 5).[1]

Professor WASHBURN, Professor PARMELEE, Assistant Professor HURSH

12. **Designing and Shaping.**—Die construction; templates; master and working molds for pressing, casting, and jiggering. *II;* (3). Assistant Professor HURSH

Prerequisite: Ceramic Engineering 1, 2.

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

17. Physical Chemistry Applied to Ceramic Materials and Processes.—Lectures; discussions; assigned reading. *I;* (4). Professor WASHBURN

Prerequisite: Ceramic Engineering 3, or equivalent; Mathematics 8 or 7 and 9; Chemistry 3a or 4.

19. Special Bodies.—Body preparation: composition, preparation, properties, uses and testing of selected types of bodies. Lectures; laboratory. *II;* (3). Professor PARMELEE

Prerequisite: Ceramic Engineering 5.

20. Refractory Materials.—Properties and uses; refractory power, chemical composition, and physical condition; refractory materials at high temperatures. (Presented as far as possible from the standpoint of the phase rule.) Lectures; discussions; assigned reading. *II;* (2). Professor WASHBURN

Prerequisite: Ceramic Engineering 17 or Chemistry 31.

99. Inspection Trip.—Visits to industrial plants representative of various phases of ceramic work. *I;* (*no credit*).

Prerequisite: Senior standing.

CHEMISTRY

WILLIAM ALBERT NOYES, Ph.D., LL.D., *Professor and Director*
SAMUEL WILSON PARR, M.S., *Professor*
HARRY SANDS GRINDLEY, D.Sc., *Professor*
EDWARD BARTOW,[1] Ph.D., *Professor*
WILSON FORSYTH MONFORT, A.M., *Acting Professor*
RICHARD CHACE TOLMAN, Ph.D., *Professor*
DAVID FORD MCFARLAND, Ph.D., *Associate Professor*
GEORGE MCPHAIL SMITH, Ph.D., *Assistant Professor*
ROGER ADAMS, Ph.D., *Assistant Professor*
B SMITH HOPKINS, Ph.D., *Assistant Professor*
HOWARD BISHOP LEWIS, Ph.D., *Assistant Professor*
GEORGE DENTON BEAL, Ph.D., *Associate*
HORACE GROVE DEMING, Ph.D., *Associate*
OLIVER KAMM, Ph.D., *Associate*
JESSIE YEREANCE CANN, Ph.D., *Associate*
GERARD VAN ROSSEN,[2] Ph.D., *Instructor*
FREDERICK OSBAND ANDEREGG, Ph.D., *Instructor*
HERBERT E EASTLACK, Ph.D., *Instructor*
HARRY CLEVELAND KREMERS, Ph.D., *Instructor*
SILAS ALONZO BRALEY, Ph.D., *Instructor*
WALTER E THRUN,[2] Ph.D., *Instructor*
CARL J ENGELDER,[2] Ph.D., *Instructor*
J GERHARD DIETRICHSON, Ph.D., *Instructor*
ROSALIE MARY PARR, Ph.D., *Instructor*
SCOTT CHAMPLIN TAYLOR,[2] M.S., *Assistant*
LLOYD BRELSFORD HOWELL, A.B., *Assistant*
JAY THOMAS FORD, M.S., *Assistant*
FLOYD ELBA ROWLAND, A.M., *Assistant*
WILLIAM ALEXANDER VANWINKLE, B.S., *Assistant*
JOHN FREDERICK GROSS HICKS, M.S., *Assistant*

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[1] On leave for military service.
[2] Resigned.

Harry James Beattie,[1] A.M., *Assistant*
Ralph Emerson Rindfusz, A.M., *Assistant*
Alfred Richard Powell, A.M., *Assistant*
Lansing Sadler Wells, A.M., *Assistant*
Leonard Francis Yntema, A.M., *Assistant*
Miner Manley Austin, A.B., *Assistant*
John Bernis Brown,[1] M.S., *Assistant*
Ralph William Hufferd, A.M., *Assistant*
Russell Starkey Bracewell, A.B., *Assistant*
William Lionel McClure,[1] A.B., *Assistant*
Herbert Ephraim French, A.M., *Assistant*
Carl Shipp Marvel, A.M., *Assistant*
Arthur Norton Bennett,[1] M.S., *Assistant*
Edman Greenfield, A.M., *Assistant*
Ruth Evelyn Merling, M.S., *Assistant*
John Tilden Nuttall, M.S., *Assistant*
Orlan Bertrand Read, M.A., *Assistant*
Max Shaw Dunn, A.B., *Assistant*
Hubert Watson Moor, B.S., *Assistant*
Sargent Gastman Powell, M.S., *Assistant*
Lynne Herman Ulich, B.S., *Assistant*
Isaac Hahn Godlove, A.M., *Assistant*
William Courtney Wilson, B.S., *Assistant*
Arthur Blaine Haw, B.S., *Research Assistant*
Joseph Marvin Braham, M.S., *Research Assistant*
Allen Edwin Stearn, A.M., *Research Assistant*
Paul Anders, *Assistant, Glass Blowing*
Otis Avery Barnes, B.S., *Graduate Assistant*
Rosslene Merle Arnold, A.B., *Graduate Assistant*
Ivar Nimes Hultman,[2] B.S., *Graduate Assistant*
Eugene Philip Fager, A.B., *Graduate Assistant*
Herman Lebeson, M.S., *Graduate Assistant*
Martin Josiah McHenry, M.S., *Graduate Assistant*
George Hopkins Coleman, B.S., *Graduate Assistant*
Owen Vernon Shaffer, B.S., *Graduate Assistant*
Manson James Bradley, M.A., *Graduate Assistant*
Ralph P Schelly,[2] B.S., *Graduate Assistant*

Cooperating:

Harry Sands Grindley, D.Sc., *Professor of Animal Nutrition*
Edward Wight Washburn, Ph.D., *Professor of Ceramic Chemistry*
Theodore Rolly Ball, Ph.D., *Instructor (Summer Session)*
Walter Gerald Karr, M.S., *Assistant (Summer Session)*
George Wallace Sears, Ph.D., *Instructor (Summer Session)*

Major: 20 hours, exclusive of Chemistry 1, 1a, 1b, 4, and 16, and inclusive of courses in quantitative analysis and organic chemistry.

Minors: 20 hours, chosen from bacteriology, botany, geology, mathematics, philosophy, physiology, physics, and zoology.

Students taking chemistry at the University are advised to give at least one year to the subject, and this should include Chemistry 1 or 1a, 2a, or 3a. Those continuing in the second year should take Chemistry 5a and 5b, or 13a and 25. In the third year Chemistry 14a, 14b, or 9, 9a, and 14c, 14d, 31, and 33 should be taken. With these, more special courses may be taken if desired, but students are not advised to take the special courses unless they have had the fundamental work represented by the selection given above. Students who desire a training for professional work in chemistry, either as teachers or in its industrial applications, should take the curriculum in chemistry, or in chemical engineering.

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[1] On leave for military service.
[2] Resigned, January 1, 1918.

Students who find it impossible to take more than one semester's work are requested to register for Chemistry 1 or 1a in the second semester rather than in the first.

1. **Inorganic Chemistry.**—The non-metallic elements. Noyes: *Textbook of Chemistry*. *I* or *II;* (5).

Professor NOYES, Assistant Professor HOPKINS, Dr. DEMING, Dr. CANN, Dr. ANDEREGG, Dr. KREMERS, and assistants

NOTE.—Students who have received entrance credit for high school chemistry are given only 3 hours credit for Chemistry 1.

1a. **Inorganic Chemistry.**—Lectures; recitations; laboratory. For students who have had one year of high school chemistry; *I* or *II;* (3).

Professor NOYES, Assistant Professor HOPKINS, Dr. DEMING, Dr. CANN, Dr. ANDEREGG, Dr. KREMERS, and assistants

Prerequisite: One year of entrance chemistry.

NOTE.—Students whose preparation proves to be inadequate for continuing this course will be required to change their registration to Chemistry 1. Students who have not used their high school chemistry for entrance may, on petition, receive 5 hours credit for Chemistry 1a. Students who have failed in Chemistry 1, if permitted to register for Chemistry 1a, may receive 5 hours credit, on petition, if their final grade is B or above.

1b. **Inorganic Chemistry.**—Lectures; recitations; laboratory. (For students in engineering.) *I* or *II;* (4).

Professor NOYES, Assistant Professor HOPKINS, Dr. DEMING, Dr. CANN, Dr. ANDEREGG, Dr. KREMERS, and assistants

NOTE.—Students who have credit for high school chemistry should register for Chemistry 1a.

2a. **Inorganic Chemistry and Qualitative Analysis.**—Chemistry and qualitative analysis of the more common metals and inorganic compounds. Lectures; recitations; laboratory. *I* or *II;* (5).

Professor NOYES, Assistant Professor HOPKINS, Dr. CANN, Dr. ANDEREGG, Dr. KREMERS, and assistants

Prerequisite: Chemistry 1 or 1a.

3a. **Inorganic Chemistry and Qualitative Analysis.**—For students in chemistry and chemical engineering. *II;* (6).

Assistant Professor HOPKINS, Dr. CANN, Dr. KREMERS

Prerequisite: Chemistry 1 or 1a.

4. **Qualitative Analysis and Chemistry of the Metallic Elements.**—Lecture, class, and laboratory work. (For students in engineering.) *I* or *II;* (4).

Assistant Professor HOPKINS, Dr. ANDEREGG, Dr. KREMERS, and assistants

Prerequisite: Chemistry 1a or 1b.

5a. **Elementary Quantitative Analysis.**—Gravimetric and volumetric analysis; stoichiometrical relations and quantitative analysis. Lectures; recitations; laboratory. Talbot: *Quantitative Chemical Analysis*. *I* or *II;* (5).

Assistant Professor SMITH in charge, Dr. BRALEY, and assistants

Prerequisite: Chemistry 2a, or 3a, or 4.

5b. **Quantitative Analysis.**—(Continuation of Chemistry 5a.) Analysis of silicates, metallic compounds, and alloys; advanced qualitative analysis. Lectures; recitations; laboratory. Treadwell-Hall: *Analytical Chemistry*, Vol. II. *II;* (5). Assistant Professor SMITH, Dr. BRALEY

Prerequisite: Chemistry 5a.

NOTE.—For Chemistry 5c, see Chemistry 25.

6.[1] **Chemical Technology.**—Technological chemistry as illustrated in those industries having a chemical basis for their principal operations and processes; trade journals. Lectures; recitations. Rogers and Aubert: *Industrial Chemistry. II;* (3). Associate Professor MCFARLAND

Prerequisite: Chemistry 5a and 14a.

7.[1] **Metallurgy.**—General metallurgy; metallurgy of iron and steel. Lectures; assigned reading; recitations. Fulton: *Principles of Metallurgy;* Stoughton: *Iron and Steel. I;* (3). Associate Professor MCFARLAND

Prerequisite: Chemistry 5a. (Senior students in engineering courses may be admitted to this course by special arrangement, without this prerequisite.)

7a. **Metallurgy of the Non-Ferrous Metals.**—Copper, lead, zinc, gold, and silver. *II;* (3). Associate Professor MCFARLAND

Prerequisite: Chemistry 7.

9. **Elementary Organic Chemistry.**—Important compounds of carbon. *II;* (3). Assistant Professor ADAMS

Prerequisite: Chemistry 2a or 3a.

9c. **Elementary Organic Chemistry.**—(Laboratory to accompany Chemistry 9.) *II;* (2). Assistant Professor ADAMS

Prerequisite: Chemistry 2a or 3a; registration in Chemistry 9, or equivalent.

10a. **Water Chemistry.**—History, sources, contamination, and standards of purity of potable waters and waters for industrial purposes. Lectures; practise in analytical methods. *II;* (3).

Acting Professor MONFORT in charge, Mr. BENNETT, Mr. GREENFIELD

Prerequisite: Chemistry 5a or 13a.

10b. **Chemistry of Water and Sewage.**—Chemical analysis of potable waters and waters for industrial purposes. History, sources, contamination, and standards of purity. Chemical analysis of sewage and effluents from sewage treatment plants, for students in sanitary engineering, registered in connection with Civil Engineering 53. *I;* (2½).

Acting Professor MONFORT in charge, Mr. BENNETT, Mr. GREENFIELD

Prerequisite: Chemistry 4.

11a-11b. **Thesis.**—The subject should be chosen and reading begun in the junior year. A minimum of five semester hours is required. (Required of seniors in chemistry and chemical engineering.) *I, II;* (3 to 5).[2]

Professor NOYES in charge

13a. **Elementary Quantitative Analysis.**—Gravimetric and volumetric analysis; fertilizer and milk analysis. Lectures; recitations; laboratory. Talbot: *Quantitative Chemical Analysis.* (For students in agriculture.) *I* or *II;* (5).

Assistant Professor SMITH in charge, Dr. BEAL, Dr. EASTLACK, and assistants

Prerequisite: Chemistry 2a, or 3a.

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[1] Certain required inspection trips will be arranged in connection with courses 6 and 7. Students intending to register in these courses should take into consideration the expense involved, which will approximate $15.00 for each course.

[2] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

13b. Advanced Agricultural Analysis.—Special methods; determinations; preparation of solutions; sampling; calculations. Treadwell: *Analytical Chemistry*, Vol. II. *II;* (5). Dr. Beal

Prerequisite: Chemistry 5a or 13a.

14a-14b. Organic Chemistry.—Lectures; recitations. Noyes: *Organic Chemistry. I;* (4): *II;* (2). Professor Noyes

Prerequisite: Chemistry 5a; should be accompanied by Chemistry 14c and 14d.

14c. Organic Chemistry (Laboratory work).—Organic synthesis. (Formerly Chemistry 9a.) *I* or *II;* (2). Assistant Professor Adams, Dr. Kamm

Prerequisite: Registration in Chemistry 14a, or equivalent.

14d. Organic Chemistry (Laboratory work).—Organic synthesis, quantitative and qualitative analysis. Continuation of Chemistry 14c, to accompany Chemistry 14b. (Formerly Chemistry 9b.) *I* or *II;* (2).
Assistant Professor Adams, Dr. Kamm

Prerequisite: Chemistry 9a, 14a; registration in Chemistry 14b, or equivalent.

15. Physiological Chemistry.—Emphasis on the clinical aspects of gastric juice, blood, urine, and milk, for prospective students in medicine. Lectures; demonstrations; conferences; practical work; assigned reading. Mathews: *Physiological Chemistry;* Hawk: *Practical Physiological Chemistry.* (Open to graduates and undergraduates.) *I;* (5). Assistant Professor Lewis

Prerequisite: Chemistry 5a or 13a; 9, or 14a-14b.

15a. Problems of Metabolism.—(For medical students.) Colloids; animal oxidations; osmosis; adsorption; selective activity of cells; metabolism; activities of gastro-intestinal tract; enzymes; inorganic nutrition. Lectures; demonstrations; conferences. *II;* (2). Assistant Professor Lewis

Prerequisite: Chemistry 15.

16. Fuel, Gas, and Water Analysis for Engineers.—Proximate analysis of coal; determination of calorific power; technical analysis of furnace gases; boiler waters; lubricating oils. (For students in engineering.) *II;* (3). Professor Parr

Prerequisite: Chemistry 4; junior standing.

17. Teachers' Course.—Methods of teaching elementary chemistry. Smith and Hall: *The Teaching of Chemistry and Physics. I;* (1).
Assistant Professor Hopkins

Prerequisite: 13 hours chemistry and senior standing.

21. Qualitative Organic Analysis.—Identification of pure organic compounds and mixtures. *I;* (2). Dr. Kamm

Prerequisite: Chemistry 9a, 9b.

25.[1] Food Analysis.—Quantitative organic analysis of food products; alcohols, carbohydrates, fats and oils, cereals, nitrogenous bodies, preservatives, and colors. Sherman: *Organic Analysis and Food Products. I;* (5). Dr. Beal

Prerequisite: Chemistry 5a or 13a; 9 or 14a-14b.

27. Qualitative Analysis of the Rarer Elements.—The rarer elements and their compounds; identification and separation of the elements; formation, solubilities, and chemical reactions of their salts. Lectures; laboratory. *II;* (3). Dr. Cann

Prerequisite: Two years' work in chemistry.

28. Advanced Qualitative Analysis.—Methods of separation; qualitative reagents; theory of reactions. Designed especially for those intending to teach qualitative chemistry. Lectures; seminar. *I;* (2). Dr. Cann

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[1] Formerly Chemistry 5c.

31. **Elementary Physical Chemistry.**—Physical chemistry and electro-chemistry. Lectures; recitations; problems. Washburn: *Principles of Physical Chemistry. II;* (4). Professor TOLMAN, Dr. DIETRICHSON

Prerequisite: Chemistry 1, 2a or 3a, 5a, 5b, Physics 1a-1b, or 7a-7b; Mathematics 7 or 8.

33. **Elementary Physical Chemistry.**—Molecular weight in gases and solutions; chemical equilibrium; the electrical conductivity of solutions and the attendant phenomena within the solution; thermochemistry. (Laboratory to accompany course 31.) *II;* (2). Dr. DIETRICHSON

Prerequisite: Chemistry 1, 2a or 3a, 5a, 5b; Physics 1a-1b, or 7a-7b; Mathematics 7 or 8.

35. **Electrochemistry.**—Electrochemical reactions. Technical applications, including electric furnace processes. Lectures; recitations; laboratory. *I;* (3). Dr. DIETRICHSON

Prerequisite: Chemistry 31, 33.

36. **The Phase Rule and its Applications.**—Equilibria in heterogeneous systems. Lectures; seminar. *II;* (2).

Prerequisite: Chemistry 31, 33; Mathematics 8, or 7 and 9.

37. **Problems in Physical and Electrochemistry.**—Work in the library or laboratory with conferences. *I;* (4). Professor TOLMAN, Dr. DIETRICHSON

Prerequisite: Chemistry 35 or 102a.

45. **Advanced Chemical Arithmetic.**—Calculations of analytical and industrial chemistry reviewed and classified; use of tables, slide-rules, charts, and calculating machines; graphical interpretation of chemical data. Lectures; recitations; problems. *I;* (2). Dr. DEMING

Prerequisite: Senior standing and the consent of the instructor.

61. **Industrial Chemical Laboratory.**—The preparation and purification of chemical products from raw materials on a scale sufficient to afford data for determining the economy of the processes employed. (Should be accompanied by either Chemistry 6 or 109.) *II;* (3). Associate Professor MCFARLAND

Prerequisite: Chemistry 5a and 14a.

65. **Technical Gas and Fuel Analysis.**—Examination of gases, gas mixtures, flue gases, and fuels; determination of calorific values; calculation of efficiencies. *I;* (2). Professor PARR

Prerequisite: Chemistry 5a.

66. **Gas Engineering.**—Carbonization processes; ovens and by-products. Lectures; reading; reports. *II;* (1). Professor PARR

Prerequisite: Chemistry 65. Registration in 66a is advised.

66a. **Control Processes in Gas Manufacture.**—Standardization methods and inspection. *II;* (1). Professor PARR

69. **Metallurgical Laboratory and Assaying.**—The fire assay of gold, silver, lead, and copper ores, mattes, and bullion; special experiments; fluxes, slags, and charge calculations; coal, oil, and gas furnaces; measurement of high temperatures. Fulton: *Manual of Fire Assaying. I;* (2). Associate Professor MCFARLAND

Prerequisite: Chemistry 5a; Geology 5.

72. **Paints, Oils, Turpentines, Varnishes, and Protective Coverings for Wood and Metals.**—Lectures; laboratory. *I*; (2). Professor PARR

Prerequisite: Chemistry 5a and 14a-14b.

73. Asphalt, Tar, and Distillation Products.—Sources, characteristics, composition, and examination: binders and dust preventives used in road construction. (For students in highway engineering.) *II;* (2). Professor PARR

Prerequisite: Chemistry 2a or 4.

76. Mineral Oils.—Fractionation, analysis evaluation for fuel, lubrication and gas manufacture. *II;* (2). Professor PARR

Prerequisite: Chemistry 9a and 14a.

77. Composition and Classification of Coal.—Classification, changes in composition, weathering, spontaneous combustion, formation of mine gases. Lectures; assigned reading. *II;* (1). Professor PARR

Prerequisite: Chemistry 65.

78. Metallography.—Constitution and microstructure of metals and alloys; properties, chemical and mechanical treatment, and structure. Lectures; reading; laboratory. *II;* (2). Associate Professor MCFARLAND

Prerequisite: Chemistry 7.

80. The Elements of Glass Blowing.—Construction and repair of glass apparatus. Laboratory. *II;* (1). Mr. ANDERS

Prerequisite: Two years' work in chemistry.

86. The Chemistry of the Higher Order Compounds.—Complex compounds from the standpoint of the valence theory as developed by Werner. *II;* (2).
Assistant Professor SMITH

Prerequisite: Chemistry 9a, 9b, 14a-14b.

90-91. Chemical Inspection Trips.—(Required for juniors and seniors in the courses in chemistry and chemical engineering.) For the year 1917-18, the trips will occur on March 25 to 30, 1918. The expense involved will approximate fifteen to twenty-five dollars for each student. *II;* (*no credit*).
Associate Professor MCFARLAND in charge

92a-92b. Chemical Literature and Reference Work.—Periods, leaders, journals. (Required of juniors in chemistry and chemical engineering; required also of juniors who are majoring in chemistry.) *I, II;* (1). Miss SPARKS

93a-93b. Journal Meeting.—Required of seniors and all graduate students in chemistry. All members of the staff of the department of chemistry are expected to attend. *I, II;* (1). Dr. DEMING

95. History of Chemistry.—Lectures and assigned reading. *I*; (2).
Assistant Professor SMITH

Prerequisite: 3 years of chemistry, including organic and physical.

Courses for Graduates

Graduate students whose major subject is in some department other than chemistry, before taking graduate work for credit in this department, must have had the equivalent of 15 university credits in chemistry, and the ground covered should include satisfactory work in general chemistry and in qualitative and quantitative analysis. Such students are advised to make selections from the following courses: Chemistry 31, 33 (or 102, 102a), 14a, 14b, 9a, 9b, 15 and 25. Courses of a more special nature will not, as a rule, be accepted for graduate work unless preceded by one of the above courses.

For students in agriculture, Chemistry 5a and 13a will not be accepted for graduate credit.

Graduate students who are candidates for an advanced degree in chemistry must have had the equivalent of 25 university credits in chemistry, properly distributed.

For students in chemistry, 5a, 13a, 9, and 9c will not be accepted for graduate credit and 14a, b, c, and d, 31 and 33 will be accepted only from students entering the Graduate School with the equivalent of 30 university credits in chemistry.

[102. **Advanced Physical Chemistry.**—(This course, with 102a, covers a period of two years.) Thermodynamic methods; the Nernst heat theorem; energy, entropy, free energy, thermodynamic potential and fugacity; behavior of pure substances; solutions; heterogeneous systems; and chemical equilibria. Calculation and use of free energy data. *Twice a week: I, II;* (*¾ unit*). Not given, 1917-18. Professor TOLMAN]

102a. **Advanced Physical Chemistry.**—(Continuation of Chemistry 102.) Kinetic-molecular methods; kinetic theory of gases; entropy and probability; the quantum theory; the molecular structures of liquids and solids; the electron theory. Lectures; seminar. *I, II;* (*¾ unit*). Professor TOLMAN

[102b. **Advanced Electrochemistry.**—Modern theories of solution; thermodynamics; transformation of chemical and electrical energy. *Three times a week. I;* (*¾ unit*). Not given, 1917-18.

Prerequisite: Chemistry 102.]

102c. **Advanced Problems in Physical and Electrochemistry.**—Work in the laboratory or library with conferences. *I;* (*½ to 1 unit*). Professor TOLMAN

Prerequisite: Chemistry 31, 33, 102 or 102a.

102e. **Special Topics in Physical Chemistry.**—Subject for 1917-18: The theory of relativity. Tolman: *The Theory of the Relativity of Motion. Once a week; I;* (*½ unit*). Professor TOLMAN

[102f. **The Chemistry and Physics of Colloids.**—The classification of disperse system; adsorption; ultramicroscopy. Electrical, chemical, optical, and catalytic properties of colloids. Seminar; laboratory. *Twice a week; I;* (*¾ unit*). Not given, 1917-18; alternates with 102b.

Prerequisite: Chemistry 31, 33, and 35 or 102b.]

103. **Advanced Inorganic Chemistry.**—Descriptive inorganic chemistry; the rarer elements; the periodic system. Lectures, with or without laboratory. *Two to five times a week; I, II;* (*½ to 1¼ units*). Assistant Professor HOPKINS

103a. **Advanced Analytical Chemistry.**—Special topics. Lectures, with or without laboratory. *One to five times a week; II;* (*½ to 1¼ units*). Assistant Professor SMITH

Prerequisite: Chemistry 5b, 9a, 9b, 14a-14b, 31, 33.

103b. **Special Topics in Inorganic Chemistry.**—Subject for 1917-18: The chemistry of the higher order compounds. Werner: *Neuere Anschauungen auf dem Gebiete der Anorganischen Chemie;* assigned reading from later publications. Lectures; seminar. *I;* (*¾ unit*). Assistant Professor SMITH

Prerequisite: Chemistry 9a, 9b, 14a-14b.

103c. **Special Topics in Inorganic Chemistry.**—Seminar: Rare earths. *I, II;* (*¼ unit*). Assistant Professor HOPKINS

103d. **Special Topics in Inorganic Chemistry.**—Subject for 1917-18: Nitrogen and its compounds. The valence and fixation of nitrogen from theoretical and technical standpoints; assigned reading. Lectures; seminar. *I, II;* (*½ unit*). Dr. ANDEREGG

104. **Advanced Organic Chemistry.**—Geometric isomerism; optical isomerism; tautomerism; mechanisms of important reactions. *I;* (*¾ unit*). Assistant Professor ADAMS

104a. Advanced Organic Chemistry.—(Special topics.) Carbohydrates, proteins, ureides, alkaloids, terpenes, relationship between color and constitution, physiological properties and chemical constitution, trivalent carbon, bivalent carbon. *II;* (*¾ unit*). Dr. Kamm

104b. Advanced Quantitative Organic Analysis.—Proteins, alkaloids, glucosides, volatile oils, and other constituents of animal and vegetable tissues; plant analysis; toxicological analysis. Chemical and physical organic analysis. Lectures; seminar. May be accompanied by laboratory work on a selected group of compounds. *Twice a week; I, II;* (*¾ unit*). Dr. Beal

104c. Organic Chemistry.—(Seminar.) Review of the current literature in organic chemistry. *Once every two weeks; I, II;* (*¼ unit*).
Assistant Professor Adams, Dr. Kamm

104d. Advanced Organic Chemistry.—The benzene, naphthalene, and anthracene compounds; other important cyclic systems as the pyridines, pyrrols, etc. *I;* (*¾ unit*). Assistant Professor Adams

105. Advanced Physiological Chemistry.—Structure and distribution of the proteins; intermediary metabolism and glands of internal secretion. Lectures; demonstrations; assigned readings; discussions. *Twice a week; II;* (*¾ unit*).
Assistant Professor Lewis

105a. Advanced Physiological Chemistry.—Difficult biochemical preparations; analytical methods. Lectures; laboratory. *One to five times a week; I* or *II;* (*¾ unit*). Assistant Professor Lewis

105b-105c. Advanced Physiological Chemistry.—Seminar. The recent development of physiological chemistry. *Two hours a week; I, II;* (*½ unit*).
Assistant Professor Lewis

106. Animal Chemistry (Animal Nutrition).—Nutrition of the lower animals; chemistry of the functional products; the flesh, fat, milk, and wool of the more common domesticated animals. Lectures; conferences; assigned reading; laboratory. *Five times a week; I, II;* (*1 to 1½ units*). Professor Grindley

Prerequisite: Two years' work in chemistry.

107. Special Problems in Technology of Fuels.—*I;* (*1 unit*). Professor Parr

Prerequisite: Chemistry 77.

108. Advanced Metallography.—Constitution and microstructure of metals and alloys; properties, chemical and mechanical treatment, and structure. Assigned reading; laboratory. *Twice a week; I;* (*¾ unit*). Associate Professor McFarland

Prerequisite: Chemistry 7 and 78 or equivalent.

109. Advanced Industrial Chemistry.—(Seminar.) Some of the more important chemical industries; development and chemical control of processes. *Twice a week; I, II;* (*¾ unit*). Associate Professor McFarland

Prerequisite: Chemistry 6, 9, 14a-14b, 21 or equivalent.

110. Water Supplies.—Chemistry of water and sewage; sources of contamination of water supplies; purification of water for potable or technical use. *One to five times a week; I, II;* (*½ to 1¼ units*). Acting Professor Monfort in charge

111. Research.—A thesis is usually required of students taking the Master's degree and is always required of students taking the degree of Doctor of Philosophy. (For a description of undergraduate work leading to a thesis, see Chemistry 11.) *I, II;* (*no credit*). Work may be taken in the following subjects:

PHYSICAL AND ELECTROCHEMISTRY Professor Tolman

INORGANIC CHEMISTRY
Assistant Professor Smith, Assistant Professor Hopkins, Dr. Deming

ANALYTICAL CHEMISTRY	Assistant Professor SMITH
FOOD CHEMISTRY	Dr. BEAL
ORGANIC CHEMISTRY	Professor NOYES, Assistant Professor ADAMS, Dr. KAMM
WATER CHEMISTRY	Acting Professor MONFORT
ANIMAL CHEMISTRY (Animal Nutrition)	Professor GRINDLEY
PHYSIOLOGICAL CHEMISTRY	Assistant Professor LEWIS
INDUSTRIAL CHEMISTRY	Professor PARR, Associate Professor MCFARLAND
CERAMIC CHEMISTRY	Professor WASHBURN

Summer Session Courses

NOTE.—All of the courses in chemistry offered in the Summer Session are equivalent to the courses of the same numbers given during the academic year.

S 1. **Elementary Chemistry.**—(5). Dr. HOPKINS, Dr. ANDEREGG, Dr. KREMERS

S 1a. **Inorganic Chemistry.**—(3). Dr. HOPKINS, Dr. ANDEREGG, Dr. KREMERS

Prerequisite: High school chemistry.

S 1b. **Inorganic Chemistry.**—(4). Dr. HOPKINS, Dr. KREMERS

S 2a. **Inorganic Chemistry and Qualitative Analysis.**—(5).
Dr. SEARS, Dr. ANDEREGG

Prerequisite: Chemistry 1 or 1a.

S 3a. **Inorganic Chemistry and Qualitative Analysis.**—(6).
Dr. SEARS, Dr. ANDEREGG

Prerequisite: Chemistry 1.

S 5a. **Elementary Quantitative Analysis.**—(5). Dr. BEAL, Dr. BALL

Prerequisite: Chemistry 2a or 3a or 4.

S 13a. **Agricultural Analysis.**—(5). Dr. BEAL, Dr. BALL

Prerequisite: Chemistry 2a or 3a.

S 17. **Teachers' Course.**—(1). Dr. HOPKINS

Prerequisite: One years' work in chemistry.

S 14a. **Elementary Organic Chemistry.**—(3).
Assistant Professor ADAMS, Dr. KAMM

Prerequisite: Chemistry S 2a or S 3a or equivalent courses.

S 14b. **Organic Chemistry (Second Course).**—(3).
Assistant Professor ADAMS, Dr. KAMM

Prerequisite: Chemistry S 14a and S 9a or equivalent courses.

S 14c. **Organic Chemistry (Elementary Laboratory Work).**—(2).
Assistant Professor ADAMS, Dr. KAMM

Prerequisite: Registration in Chemistry S 14a or completion of a course equivalent to S 14a.

S 14d. **Organic Chemistry (Advanced Laboratory Work).**—(2).
Assistant Professor ADAMS, Dr. KAMM

Prerequisite: Registration in Chemistry S 14b or completion of a course equivalent to S 14b.

S 15. **Physiological Chemistry.**—(5). Dr. LEWIS, Mr. KARR

Prerequisite: Chemistry 5a or 13a, and 14a-b or 9 and 9c, or equivalent.

S 25. **Food Analysis.**—(5). Dr. BEAL, Dr. BALL

S 11 and S 111. **Research.**—
Assistant Professor ADAMS, Dr. BEAL, Dr. LEWIS, Dr. HOPKINS

S 92. **History of Chemistry.**—(1). Miss SPARKS

CIVIL ENGINEERING

Frederick Haynes Newell, B.S., D.Eng., *Professor; Head of the Department*
Ira Osborn Baker, B.S., C.E., D.Eng., *Professor*
Charles Alton Ellis, A.B., *Professor, Structural Engineering*
James Elmo Smith, B.S., C.E., *Assistant Professor*
Wilbur M Wilson,[1] M.M.E., C.E., *Assistant Professor, Structural Engineering*
Clarence Stanley Sale, B.S., *Assistant Professor*
Carroll Carson Wiley, B.S., C.E., *Associate*
Neal Bryant Garver, B.S., C.E., *Associate*
George Wellington Pickels, Jr.,[1] B.C.E., C.E., *Associate*
William Horace Rayner, B.S., C.E., *Associate*
Raymond Earl Davis, M.S., C.E., *Associate*
Camillo Weiss, M.S., *Instructor, Structural Engineering*
Benjamin Lester Bowling, *Assistant, Highway Laboratory*

Courses for Undergraduates

27. **Plane Surveying.**—Areas and volumes; partitioning of land; U. S. land survey methods; re-establishment of corners and boundaries; interpretation of deeds; farm and city surveying; topographic surveying; map construction. Tape, stadia, transit, and level. Breed and Hosmer: *Principles and Practise of Surveying*, Vol. I.; and Davis: *Manual of Surveying. I;* (3). Mr. Rayner, Mr. Davis

Prerequisite: General Engineering Drawing 1, 2; Mathematics 4.

28. **Higher Surveying.**—Topographic and hydrographic surveys; latitude, longitude, and azimuth; topographic drawing; precise surveys; triangulation system; coordinates; geodesy. Breed and Hosmer: *Principles and Practise of Surveying*, Vol. II. Davis: *Manual of Surveying. II;* (3). Mr. Rayner, Mr. Davis

Prerequisite: Civil Engineering 27; Physics 1a, 3a, and registration in Physics 1b, 3b.

31. **Surveying.**—Compass, level, transit, and plane-table. Determination of distances by pacing, and with chain and tape, and of areas with compass and transit; profile leveling; plane-table. Davis: *Manual of Surveying.* (For students in landscape architecture.) *I;* (3). Mr. Rayner

Prerequisite: Mathematics 4; Architecture 31, 32.

32. **Topographic Surveying.**—The stadia; topographic signs; contour construction; grading and drainage; advanced plane-table. Each student will prepare a large scale topographic map of a portion of the campus. Davis: *Manual of Surveying.* (For students in landscape architecture.) *II;* (3). Mr. Rayner

Prerequisite: Civil Engineering 31.

35. **Surveying.**—Compass, level, transit, and plane-table. Determination of distances with tape and by stadia, and of areas with compass and transit; differential and profile leveling; U. S. land survey methods; topographic surveying. Breed and Hosmer: *Principles and Practise of Surveying*, Vol. I.; and Davis: *Manual of Surveying.* (For mining engineering students and others who do not expect to take Civil Engineering 28.) *I;* (3). Mr. Davis

Prerequisite: Physics 1b and 3b.

38. **Map Reading and Military Sketching.**—(For engineering students who have not taken surveying.) Use and construction of topographic maps; representation of relief; conventional signs; contour construction; profiles, visibility of

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[1] On leave for military service.

lines and areas; construction of military maps in the field; road, outpost, and position sketches; sketch board, clinometer, range finder, aneroid barometer. *II;* (1). Mr. DAVIS

Prerequisite: Sophomore standing in engineering.

51. **Railroad Surveying.**—Economic location, construction, and maintenance of railways; curves, turnouts, and earthworks; preliminary and location surveys. Each student makes a complete set of maps, profiles, and estimates. Pickels and Wiley: *Railroad Surveying. I;* (5). Assistant Professor SMITH, Mr. WILEY

Prerequisite: Civil Engineering 27, 28.

52. **Roads and Pavements.**—Earth, gravel, macadam, concrete, brick and bituminous roads; street pavements, and accessories; road-building machinery; effect of travel on road surfaces; dust prevention and street cleaning. Baker: *Roads and Pavements. II;* (3). Assistant Professor SMITH, Mr. WILEY

Prerequisite: Mathematics 4; General Engineering Drawing 1, 2; Civil Engineering 27, 28, 51.

53. **Railroad Surveying.**—First eleven weeks of course 51, for juniors in municipal and sanitary engineering. *I;* (3). Assistant Professor SMITH

Prerequisite: Civil Engineering 27, 28.

55. **Roads and Pavements.**—(For students in landscape gardening.) Blanchard: *Elements of Highway Engineering. I;* (2). Professor BAKER

57. **Stream Flow.**—Hydraulics of rivers and smaller streams; instruments and methods of obtaining climatological data and for measuring stream flow; current meter, float, weir, and various modules; solution of problems from field data measurement of drainage areas and estimation of discharge. Hoyt & Grover: *River Discharge. I;* (3). Mr. DAVIS

Prerequisite: Civil Engineering 28.

58. **Graphic Statics.**—Determination of stresses in roof trusses and in three-hinged arches. Malcolm: *Elements of Graphic Statics.* (For students in mining engineering.) *II;* (2). Assistant Professor SMITH

Prerequisite: Theoretical and Applied Mechanics 20, 25.

60. **Structural Stresses.**—The determination of stresses in roofs, bridges, and steel-skeleton buildings, by algebraic and graphic processes. *II;* (4).
Professor ELLIS, Mr. WEISS

Prerequisite: Mathematics 2, 4, 6; Theoretical and Applied Mechanics 20, 21, 29, 10; General Engineering Drawing 1, 2.

62. **Structural Details.**—Design of details for roofs, bridges, and steel-frame buildings; detail drawings and shop bills. Carnegie: *Pocket Companion,* last edition. *II;* (2). Mr. GARVER

Prerequisite: Registration in Civil Engineering 60.

70. **Seminar.**—Reading and discussion of papers. Each student presents one major and two minor papers on assigned topics, and participates in the discussion of other papers. *II;* (1). Professor BAKER, Mr. DAVIS

Prerequisite: Full junior standing in civil engineering.

76. **Surveying.**—(For ceramic engineering students.) Plane and topographic surveying; adjustment and use of the transit, level, and plane-table; areas and volumes; map and profile construction; land surveying; contours; differential and profile leveling. Davis: *Manual of Surveying. II;* (2). Mr. RAYNER

Prerequisite: Mathematics 4; General Engineering Drawing 1, 2; Physics 1a-1b, 3a-3b.

77. Masonry Construction.—Baker: *Masonry Construction.* *I;* (4).
Professor BAKER

Prerequisite: Theoretical and Applied Mechanics 20, 21, 29, 10; Civil Engineering 60.

79. Cement Laboratory Practise.—Standard tests for hydraulic cement. *I*; (1).
Mr. BOWLING

Prerequisite: Theoretical and Applied Mechanics 20, 21, 29, 10; Civil Engineering 60.

80. Engineering Contracts and Specifications.—The law of contracts; general and technical clauses used in engineering specifications. Johnson: *Engineering Contracts and Specifications.* *II;* (2). Professor BAKER

Prerequisite: Full senior standing in engineering.

81. Theory of Reinforced Concrete.—Reinforced concrete beams, columns and slabs. Hool: *Reinforced Concrete Construction.* *I;* (2). Professor ELLIS

Prerequisite: Full senior standing in engineering.

82. Reinforced Concrete Design.—Plain and reinforced structures. Hool: *Reinforced Concrete Construction*, Vol. III. *II;* (4). Mr. GARVER

Prerequisite: Civil Engineering 81.

83. Bridge Design.—Stresses and sections of a plate girder and a truss span; stress sheet, general design drawings, and estimate of weights. Johnson, Bryan, and Turneaure: *Modern Framed Structures*, Part III. (For railway civil engineers, and civil engineers taking the general civil engineering option.) *I;* (3).

Prerequisite: Civil Engineering 60, 62.

84. Engineering Functions.—Relation of the engineer to his employer, private, corporate, or public; responsibility of the engineer as inspector, designer, supervisor of labor, agent or arbitrator; functions in valuation proceedings, in investigations, etc. *II;* (2). Assistant Professor SALE

Prerequisite: Full junior standing.

85. Steel Bridge Design.—An expansion of course 83. Johnson, Bryan, and Turneaure: *Modern Framed Structures*, Part III. (For civil engineers taking the structural engineering option.) *I;* (5). Mr. GARVER, Mr. WEISS

Prerequisite: Civil Engineering 60, 62.

86. Public Service Engineering.—The engineer in public employment; organization of work under city, county, state, and federal administration; public improvements; methods of financing; preparing plans and considering the public welfare, including bridges, parks, recreation grounds, city planning, etc. *II;* (3).
Assistant Professor SMITH

Prerequisite: Full junior standing.

87. Advanced Bridge Analysis.—Continuous, draw, cantilever, suspension, and metal-arch bridges. *I;* (2). Professor ELLIS

Prerequisite: Civil Engineering 60, 62; and registration in Civil Engineering 83 or 85.

89. Hydro-Economics.—The occurrence of water in nature; its conservation, regulation, and use for power and in industries; irrigation, drainage, transportation, domestic supply; the legal title to the use of water. *I;* (2). Professor NEWELL

Prerequisite: Senior standing.

90. Hydro-Economics.—(A continuation of course 89.) *II;* (2).
Professor NEWELL

Prerequisite: Civil Engineering 89.

93. **Road Construction.**—Design; preparation of plans, specifications, and estimates of cost; types and methods of construction. *I;* (3). Mr. WILEY

Prerequisite: Civil Engineering 52; Theoretical and Applied Mechanics 21, 29.

94. **Highway Administration.**—Road laws and administration in Europe and America; taxation and methods of financing road work; relation of highway improvement to social and economic welfare. *II;* (3). Mr. WILEY

Prerequisite: Senior standing in civil engineering.

96. **Road Laboratory.**—Examining and testing bituminous and non-bituminous road materials; interpretation of the results. *II;* (2). Mr. WILEY, Mr. BOWLING

Prerequisite: Civil Engineering 52, 79; registration in Chemistry 73.

97-98. **Thesis.**—A problem in investigation or design, subject to the approval of the head of the department. Only students of high standing are permitted to take a thesis. *I;* (1): *II;* (2 or 3).[1]

Prerequisite: Full senior standing in civil engineering.

99. **Inspection Trip.**—*I;* (*no credit*)

Prerequisite: Senior standing.

Courses for Graduates

Entrance on graduate work in civil engineering presupposes the full undergraduate course in that subject.

101. **Irrigation and Drainage.**—Survey, examination, construction, maintenance, and operation of works for irrigation and drainage of agricultural lands; water rights. *Twice a week; I, II;* (*½ unit*). Professor NEWELL

107. **Bridge Engineering.**—Deflections; the statically indeterminate frame; swing bridges and arches; special graphic methods; suspension bridges; secondary stresses; impact. *Two or three times a week; I, II;* (*1 unit or more*). Professor ELLIS

THE CLASSICS

HERBERT JEWETT BARTON, A.M., *Professor, Chairman*
CHARLES MELVILLE MOSS, Ph.D., *Professor*
WILLIAM ABBOTT OLDFATHER,[2] Ph.D., *Professor*
ARTHUR STANLEY PEASE, Ph.D., *Professor*
HOWARD VERNON CANTER, Ph.D., *Associate Professor*
JAMES CURTIS AUSTIN, A.B., *Assistant*
CHARLES N SMILEY, Ph.D., *Professor of Latin in Grinnell College* (*Summer Session*)

Major: 20 hours, excluding Greek 1a-1b, 17, 18, and 19.

Minors: 20 hours chosen from foreign languages (Latin being especially recommended), English literature, history, and philosophy.

LATIN

Major: 20 hours, excluding Latin 1a, 1b, 6a, and 12.

Minors: 20 hours chosen from foreign languages (Greek being especially recommended), English literature, history, and philosophy.

THE CLASSICS

Major: 20 hours in Greek and Latin, excluding Greek 1a-1b, 16, 17, 18, 19, and 20, and Latin 1a, 1b, 6a, 12, 13, and 19. At least six hours shall be carried in the secondary language and the remaining hours in the primary language.

Minors: 20 hours chosen from foreign languages, English literature, history, and philosophy.

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

[2] On leave of absence, second semester.

GREEK

Courses for Undergraduates

The courses in translation naturally follow each other in the following sequence: 1a-1b, 3, 7 (5), 6 (8). Courses 1a-1b, 3, and 4 are intended for students who cannot present Greek for entrance to the University but who desire to commence the study of the language. Course 2a-2b, may be taken after course 1a-1b and course 14 after courses 5 or 7. Courses 16, 17, 18, and 19 are open to sophomores, juniors, and seniors; 20 is open to those who have completed one year in history or classics.

1a-1b. Grammar and Reader.—First semester: Attic forms; reading of simple prose. Second semester: Xenophon's *Anabasis.* Book I. *I, II;* (4).
Professor OLDFATHER, Mr. AUSTIN

2a-2b. New Testament Greek.—First semester: Reading of selections. Second semester: Lectures on canon and text. *I, II;* (2). Professor MOSS
Prerequisite: Greek 1.

3. Second Year Greek.—Xenophon's *Anabasis*, Books II-IV; grammatical drill. *I;* (3). Professor PEASE
Prerequisite: Greek 1.

4. Second Year Greek.—Homer, six Books of the *Iliad. II;* (3). Mr. AUSTIN
Prerequisite: Greek 3.

6. Thucydides.—*The Sicilian Expedition*, Books VI-VII. *I;* (3).
Professor MOSS
Prerequisite: Greek 4.

8. Plato.—Selected dialogues, including the *Apology* and *Phaedo. II;* (3).
Professor PEASE
Prerequisite: Greek 4.

14. Greek Prose Composition.—*II*; (1). Professor MOSS
Prerequisite: Greek 5 and 6 or 7 and 8.

Greek Life and Literature in English

(Courses 16-20 presuppose no knowledge of Greek and are open to all students except freshmen.)

16. The Private and Public Life of the Greeks.—Lectures illustrated by photographs and slides; prescribed readings. *I*; (1). Professor MOSS

17. Greek Poetry in Translations.—*I*; (2). Professor MOSS

18. Greek Prose in Translations.—*II*; (2). Professor MOSS

19. Greek Drama in Translations.—*II*; (2). Professor MOSS

20. Greek History.—(This course is described by the department of history as History 5.) *I;* (3). Professor OLDFATHER
Prerequisite: One course in history or the classics. Not open to freshmen.

Courses for Graduates

105. Plato and Aristotle.—Selections from the political and ethical writings. *I; (1 unit).* Professor OLDFATHER

107. Greek Oratory.—One or more speeches of each of several orators; lectures and reports. *I, II; (1 unit).* Professor MOSS

110. Bibliography and Criticism.—(Thesis course.)—*Once a week; I, II; (1 unit).*
Professor OLDFATHER, Professor PEASE, Associate Professor CANTER, and others

LATIN

6. Cicero.—Selections from the *Orations. I;* (4). Mr. AUSTIN
Prerequisite: Two entrance units in Latin.

1a-1b. Ovid and Vergil.—First semester: Selections from the *Amores, Heroides*, and *Metamorphoses*. Second semester: Selections from the *Aeneid*. *I, II;* (4). Professor PEASE, Mr. AUSTIN

Prerequisite: Three entrance units in Latin.

2a-2b. Livy, Plautus, and Terence.—First semester: Selections from Livy, the story of Hannibal. Second semester: The *Captivi* and *Rudens* of Plautus and the *Phormio* of Terence. *I, II;* (4). Professor BARTON

Prerequisite: Four entrance units in Latin.

3. Sallust and Cicero.—Selections from the *Jugurthine War; De Senectute*. *I;* (3). Associate Professor CANTER

Prerequisite: Latin 2a-2b.

4. Horace and Catullus.—Selections. *II*; (3). Professor PEASE

Prerequisite: Latin 2a-2b.

5a-5b. Latin Composition.—Grammatical drill and practise in the simpler forms of expression. *I, II;* (1). Associate Professor CANTER

Prerequisite: Latin 1a-1b or its equivalent.

Roman Life and Literature in English

(Courses 12 and 13 presuppose no knowledge of Latin; open to all students except freshmen.)

12. Virgil and Horace in English Translations.—The *Aeneid* and selections from Horace. *I;* (2). Professor BARTON

13. Roman Life.—The family, organization of society, education, marriage, amusements, with some attention to the monuments. Lectures and assigned readings illustrated by photographs and slides. *II*; (1). Professor BARTON

19. Roman History.—(This course is described by the department of history as History 6.) Not open to freshmen. *II*; (3). Associate Professor CANTER

9. Teachers' Course.—The purpose and methods of preparatory Latin instruction; the teacher's preparation. *II*; (2). Professor BARTON

Prerequisite: Eighteen hours in Latin. A portion of this requirement may be waived in the case of those who have taught Latin.

10. Latin Composition.—The leading principles; imitation of assigned models. *I;* (2). Professor BARTON

Prerequisite: Twelve hours in Latin, including Latin 5a-5b or its equivalent.

Courses for Advanced Undergraduates and Graduates

8. Tacitus.—The *Annals*, Books I-VI. *I;* (3). Professor PEASE

Prerequisite: Twelve hours in Latin.

16. Martial and Suetonius.—Selections; lectures on literary history. *II*; (3). Professor BARTON

Prerequisite: Eighteen hours in Latin.

22. Late Latin.—Rapid reading of selections from the Latin writers from Minucius Felix to Cassiodorus. *II;* (2). Professor PEASE

Prerequisite: This course is open to seniors and graduates who have had two years of college Latin or who otherwise satisfy the instructor of their ability to do the work required.

Courses for Graduates

Students desiring to take graduate work in Latin should have had at least three years of college Latin in addition to the Latin presented to meet entrance requirements.

101. Latin Epigram.—*Twice a week; II; (1 unit).* Associate Professor CANTER

104. Latin Paleography.—*Twice a week. I; (1 unit).* Professor PEASE

107. Latin Epigraphy.—*Twice a week. II; (½ to 1 unit).* Professor PEASE

108. Tacitus.—*The Histories. Twice a week; I; (1 unit).* Professor BARTON

109. Vergil.—*Twice a week; II; (1 unit).* Professor PEASE

110. Bibliography and Criticism.—(Thesis course.) *Once a week; I, II; (1 unit).* Professor OLDFATHER, Professor PEASE, Associate Professor CANTER, and others

Summer Session Courses

S 1. Terence.—Three plays; discussion of the language and verse of Roman comedy. (2½). Professor SMILEY

Prerequisite: Three or four years of high-school Latin.

S 2. Vergil.—Selections from the *Aeneid;* scansion; technic. (2½). Professor BARTON

Prerequisite: Two or three years of high-school Latin.

S 3. Horace.—Selections from the Odes. (1½). Professor SMILEY

Prerequisite: One year of college Latin.

S 4. Teachers' Course.—Purpose, problems, and methods of secondary instruction in Latin; books and equipment. (1½). Professor BARTON

S 5. Roman Private Life.—The family; organization of society; marriage; education; dress. (1). Professor BARTON

S 16. Lucretius.—Books I, III, V. Ancient philosophy; Roman stoicism; dactylic hexameter verse form. *(2 credit hours or ½ unit).* Professor SMILEY

Prerequisite: Fifteen hours of college Latin.

COMMERCIAL LAW

(See BUSINESS ORGANIZATION AND OPERATION.)

COMPARATIVE LITERATURE

JOSEPH EUGENE GILLET, Ph.D., *Associate in Comparative Literature and Romance Languages*

NOTE.—Comparative Literature 1 and 2 may be counted toward a major in English, or toward a minor in French, in Romance Languages, or in German

1. Tragedy.—Theory and practise from classical times to the present day. Lectures; readings; reports. *I;* (3). Dr. GILLET

Prerequisite: Two years of college work, or the permission of the instructor.

2. Comedy.—Theory and practise from classical times to the present day. Lectures; readings; reports. *II;* (3). Dr. GILLET

Prerequisite: Two years of college work, or the permission of the instructor.

COMPARATIVE PHILOLOGY

LEONARD BLOOMFIELD, Ph.D., *Assistant Professor of Comparative Philology and German*

For Advanced Undergraduates and Graduates

1. Introduction to the Study of Language.—Phonetics; the development of forms of speech; dialects and the spread of languages; the study and teaching of language. *I;* (3). Assistant Professor BLOOMFIELD

Prerequisite: The consent of the instructor.

2. Comparative Philology of the Indo-European Languages.—Attention will be given chiefly to Greek, Latin, and the Germanic languages, including English. *II*; (2). Assistant Professor BLOOMFIELD

Prerequisite: The consent of the instructor.

3. Elementary Sanskrit.—Reading and grammar. *I*; (3). Assistant Professor BLOOMFIELD

Prerequisite: The consent of the instructor.

4. Elementary Sanskrit.—Continuation of 3. *II*; (3). Assistant Professor BLOOMFIELD

Prerequisite: Comparative Philology 3.

DAIRY HUSBANDRY

HARRY ALEXIS HARDING, Ph.D., *Professor, Dairy Bacteriology*
WILBUR JOHN FRASER, M.S., *Professor, Dairy Farming*
NELSON WILLIAM HEPBURN, M.S., *Assistant Professor, Dairy Manufactures*
MARTIN JOHN PRUCHA, Ph.D., *Assistant Professor, Dairy Bacteriology*
RAY STILLMAN HULCE, M.S., *Associate, Milk Production*
HARRISON AUGUST RUEHE, M.S , *Associate, Dairy Manufactures*
PAUL WILLIAM ALLEN, M.S., *Associate, Dairy Bacteriology*
OLIVER RALPH OVERMAN, A.M., *Associate, Dairy Chemistry*
WILLIAM WODIN YAPP, M.S., *Instructor, Dairy Husbandry*
LEIGHTON J TRUE, B.S., *First Assistant, Dairy Manufactures*
MURRAY REED BENEDICT, B.S., *Assistant, Dairy Husbandry*

Courses for Undergraduates

1. **Milk Testing.**—Babcock test; purity and adulteration; lactometer; acidity, moisture, salt; qualitative separation of milk into its components; composition of milk. Lectures; recitations; problems; laboratory. *I* or *II*; (3). Mr. OVERMAN

2. **Dairy Cattle.**—Selection, feeding, and management; dairy type and its relation to production; herd improvement; feeding for production and development; history, characteristics, and adaptability of breeds; milking machines; barn arrangements; herd management. (Students having credit in course 16 should register for laboratory work only, for which they will receive two hours' credit. All others must register for both lectures and laboratory.) Lectures; recitations; laboratory. *I*; (5). Mr. HULCE, Mr. YAPP

Prerequisite: Animal Husbandry 5, 8, and 21, or their equivalent.

3. **Elements of Dairy Husbandry.**—The dairy herd; dairy sanitation; milk testing; milk; milk products. (Required of all freshmen in the general curriculum in agriculture.) Lectures; demonstrations. *I* or *II*; (1). Mr. YAPP and others

4. **Ice Cream Making.**—Mixing and freezing of ice cream, sherbets, and other frozen products; freezers; flavoring materials, fillers, and binders; ice cream standards; artificial refrigeration in the ice-cream plant. (This course is accompanied by one inspection trip, costing from $10 to $15.) *I* or *II*; (3). Mr. RUEHE

Prerequisite: Dairy Husbandry 1 or 5.

5. **The Composition of Dairy Products.**—Rapid commercial tests; milk proteins; milk fat. Lectures; recitations; problems; assigned reading; laboratory. *II*; (3). Mr. OVERMAN

Prerequisite: Chemistry 13a. It is desirable that students registering in this course take Chemistry 9 or its equivalent, which after 1919-20 will be made a prerequisite.

6.[1] **Germ Life and the Dairy.**—Bacteriology and dairy problems. Lectures; assigned readings. *I*; (1). Professor HARDING, Mr. ALLEN

7. Creamery Buttermaking and Factory Management.—Types of creameries; raw product; grading; pasteurization; commercial starters; ripening, churning, salting, and working butter; composition and scoring; physical phenomena in making, packing, and storing; creamery by-products; refrigeration. Creamery location and plans; business management and accounting. (This course is accompanied by one inspection trip costing from $10 to $15.) Lectures; laboratory. *II;* (5). Assistant Professor HEPBURN, Mr. RUEHE

Prerequisite: Dairy Husbandry 1. After 1918-19, the prerequisites will be Dairy Husbandry 5 and Accountancy 1a and 1b.

8. City Milk Supply.—Production, transportation, plant, and delivery. *II*; (2). Professor HARDING, Mr. TRUE

11. Dairy Bacteriology.—The bacteria of milk and its products; introduction, effect, and control. Lectures. *I;* (2). Professor HARDING, Mr. ALLEN

Prerequisite: Bacteriology 1 or 5; two years of university work.

12a-12b. Dairy Bacteriology.—The bacteria in milk and its products. Laboratory. *I, II;* (4). Professor HARDING, Mr. ALLEN

Prerequisite: Bacteriology 1 or 5; two years of university work.

13. General Course in Dairy Manufactures.—Milk production, care, and distribution; handling cream on the farm; hand separators; machines; making and marketing butter under farm conditions; soft cheeses; manufactured milk drinks; ice cream making; plans and equipment for the farm dairy. (For the student who has only a general interest in the subject of dairy manufactures.) *I;* (3). Assistant Professor HEPBURN, Mr. RUEHE, and others

14. Milk Condensing.—Making condensed milk; processing; milk powder; condensing plants and their equipment. (This course requires one inspection trip costing from $10 to $15.) Lectures; laboratory. *II;* (2). Mr. RUEHE

Prerequisite: Dairy Husbandry 1 or 5.

17. Advanced Study of Dairy Breeds.—History; environment; breed characteristics; prominent families and individuals; pedigree work; official tests; advanced registry; problems. Lectures; assigned reading; seminar work. *II;* (2). Mr. YAPP

Prerequisite: Two years of university work; Animal Husbandry 8; Dairy Husbandry 2.

20. Economic Problems in Dairy Farming.—Factors of production on a dairy farm; profits; size of farms; farm labor; relation of the people to the land. *I;* (3). Professor FRASER

Prerequisite: Two years of university work, 4 hours in Dairy Husbandry, and Economics 1 or 2.

21. Systems of Dairy Farming.—Relation of cow and herd to profits; how to establish and perpetuate a dairy herd; economy crops and rations; system of cropping; organization of farm; location and arrangement of buildings and lots; accounts, records, inventories; markets; care and disposal of milk. (A three-day inspection trip is required; expense about $17.) *II;* (5). Professor FRASER

Prerequisite: Dairy Husbandry 2.

22. Cheese Making.—Practise in making the more common varieties of hard and soft cheese. Lectures; laboratory. *I;* (2). Mr. RUEHE

Prerequisite: Dairy Husbandry 1.

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[1] Not open for credit to students who have taken Bacteriology 1 or 5.

23a-23b. Investigation and Thesis.—*I, II*; (5-10).[1]
Professor HARDING, Professor FRASER, Assistant Professor HEPBURN, Mr. HULCE

Courses for Graduates

101. Economic Milk Production.—Differences in efficiency of dairy cows, the cause and effect of these differences and their relation to successful dairy farming. *Twice a week; I, II; (1 unit).* Professor FRASER

104. Scientific Readings.—Reading and discussion of some German or French bacteriological text. (Recommended for first and second year students.) *Once a week; I, II; (½ unit).* Professor HARDING, Assistant Professor PRUCHA

105. Bacteriological Literature.—Assigned readings. Each student required to prepare and deliver an acceptable course of lectures. (Recommended for second and third year students.) *Once a week, or once in two weeks; I, II; (½ or 1 unit).* Professor HARDING

106. Research on Assigned Problems.—Reading; laboratory; reports. (Open to graduate students whose development permits their undertaking problems of dairy bacteriology with only general supervision.) *I, II; (½ to 2 units).* Professor HARDING, Assistant Professor PRUCHA

107. Dairy Chemistry.—Assigned reading and problems. *Once a week; I, II; (1 unit).* Mr. OVERMAN

DRAWING, GENERAL ENGINEERING

HARRY WILLARD MILLER,[2] M.E., *Assistant Professor*
HARVEY HERBERT JORDAN, B.S., *Assistant Professor*
FRANCIS MARION PORTER, M.S., *Associate*
RUFUS CRANE, A.B., B.S., *Instructor*
LEO STARR BALDWIN, B.S., *Instructor*
MERTON FORD BANKS,[3] *Instructor*
WILLIAM JOSEPH BINGEN, C.E., *Instructor*
CHARLES LYMAN ELLIS, A.B., *Assistant*

1. Elements of Drafting.—Lettering; isometric oblique and perspective drawing, orthographic projection; machine sketching; working drawings; 12 plates from specifications and 6 plates from models, with tracings. Dimensioned sketches from parts of machines; tracings duplicated in blue-print. Time sketches. (More advanced work is given to students who have had high school drawing.) Miller: *Mechanical Drafting. I* or *II;* (4). The department staff

2. Descriptive Geometry.—Point, line, and plane; surfaces; intersections and developments (for architects, perspective). Problems; recitations. Three drawing room plates, 2 hours each, 5 problems per plate, and 2 home plates, 5 problems each, a week. Miller: *Descriptive Geometry. I* or *II;* (4). The department staff

Prerequisite: Solid geometry, college algebra, plane trigonometry.

21. Advanced Descriptive Geometry.—Cylinder, cone, convolute, and warped surface; intersections of surfaces in pairs, and by planes; planes tangent; developable and approximately developable surfaces and doubly curved and complex surfaces of revolution. *II;* (2). Mr. PORTER

Prerequisite: General Engineering Drawing, 1, 2.

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

[2] On leave for military service.

[3] Resigned.

ECONOMICS

(See also BUSINESS ORGANIZATION AND OPERATION, and TRANSPORTATION.)

DAVID KINLEY, Ph.D., LL.D., *Professor*
MAURICE HENRY ROBINSON, Ph.D., *Professor*
ERNEST LUDLOW BOGART, Ph.D., *Professor*
CHARLES MANFRED THOMPSON, Ph.D., *Associate Professor*
NATHAN AUSTIN WESTON, Ph.D., *Assistant Professor*
SIMON LITMAN, Dr.Jur.Pub.et Rer.Cam., *Assistant Professor*
CHARLES LESLIE STEWART, Ph.D., *Instructor*
HENRY ELMER HOAGLAND,[1] Ph.D., *Instructor*
MERVIN HAROLD HUNTER, Ph.D., *Instructor*
GORDON WATKINS, A.M., *Instructor*
WALTER WILSON JENNINGS, A.M., *Assistant*
WILLIAM HENRY DREESEN, A.M., *Assistant*
ANDREW FRANKLIN HUNSAKER, A.M., *Assistant*
ALVA LEROY PRICKETT, A.B., *Assistant*

Major: For students in the College of Liberal Arts and Sciences twenty hours, made up of Economics 1 and any other courses in economics for which it is a prerequisite.

Minor: Twenty hours in any one or two of the following subjects: history, philosophy, political science, and sociology.

Economics 7, 22, and 26 are open to freshmen without previous requirement. Economics 27 is also open to freshmen, but requires credit in course 26 or an approved high-school course in commercial geography.

Economics 1 and 3 are the fundamental courses in economics. They are prerequisites for most of the advanced courses and students expecting to do advanced work in economics should take them both in their sophomore year.

Economics 2, tho open to all students who have had 30 hours of university work, is primarily for students in the Colleges of Agriculture and Engineering and in courses in household science, chemistry, chemical engineering, and other sciences. It may not be used as a prerequisite for advanced courses in economics except as indicated.

Courses for Undergraduates

1. Principles of Economics.—(See note preceding the description of courses in economics above.) *I;* (5).

Associate Professor THOMPSON, Dr. STEWART, Dr. HOAGLAND, Dr. HUNTER, Mr. WATKINS, Mr. HUNSAKER

Prerequisite: Thirty hours of university work.

2. Principles of Economics.—(See note preceding the description of courses in economics above.) *II;* (3).

Associate Professor THOMPSON, Dr. HUNTER, Mr. WATKINS, Mr. HUNSAKER

Prerequisite: Thirty hours of university work.

3. Money and Banking.—(See note preceding the description of courses in economics above.) *II;* (3).

Assistant Professor WESTON, Dr. STEWART, Dr. HUNTER, Mr. WATKINS

Prerequisite: Economics 1.

7. English Economic History.—*Open to freshmen and sophomores only. I;* (3).

Professor BOGART

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[1] Resigned.

[16c. **Agricultural Economics.**—The application of the principles of economics to the problems of agriculture. *II;* (3). Not given, 1917-18.

Prerequisite: Economics 1 or 2.]

22. **The Economic History of the United States.**—*Open to freshmen only. II;* (3).

Professor BOGART, Associate Professor THOMPSON, Mr. HUNSAKER, Mr. JENNINGS, Mr. PRICKETT, Mr. DREESEN

[23. **Statistics.**—Sources of data; purposes; preparation of schedules; analysis of returns; averages and index numbers; frequency tables; graphic methods; limitations of statistics; current problems. *II;* (3). Not given, 1917-18.

Dr. HOAGLAND

Prerequisite: Economics 1.]

26. **Economic Resources.**—Environment influences affecting commercial and industrial development; products and industries of different countries, especially of the United States. *Open to freshmen and sophomores only. I;* (3).

Assistant Professor LITMAN, Dr. STEWART, Dr. HUNTER, Mr. JENNINGS, Mr. PRICKETT

27. **Modern Industries.**—Raw materials; geographical distribution and economic significance; leading industries; stages of production; distribution of commodities. *Open to freshmen and sophomores only. II;* (3).

Assistant Professor LITMAN

Prerequisite: Economics 26, or an approved high-school course in commercial geography.

32. **Marketing Farm Produce.**—*II*; (2). Dr. STEWART

Prerequisite: Economics 1 or 2.

33. **Economics of Insurance.**—Historical development and economic aspects. *I;* (2). Professor ROBINSON

Prerequisite: Economics 1 and 3.

34. **Property Insurance.**—Fire, marine, title, and credit insurance and corporative suretyship. *II;* (2). Professor ROBINSON

Prerequisite: Economics 1 and 3.

35. **Corporations.**—Organization and financial management of corporations. *Open to junior and senior engineering students only. I;* (3). Professor ROBINSON

Prerequisite: Economics 1 or 2.

Courses for Advanced Undergraduates and Graduates

[4. **Financial History of the United States.**—*I*; (3). Not given, 1917-18.

Prerequisite: Economics 1 and 3; senior standing.]

5. **Public Finance.**—*I*; (3). Professor BOGART

Prerequisite: Economics 1.

8. **The Money Market.**—*II*; (2). Assistant Professor WESTON

Prerequisite: Economics 1 and 3, Business Organization and Operation 1, senior standing.

9. **Practical Banking.**—Banking practise in the United States. *I*; (2).

Assistant Professor WESTON

Prerequisite: Economics 1 and 3; Business Organization and Operation 1; senior standing.

10. **Corporation Management and Finance.**—*II;* (3). Professor ROBINSON

Prerequisite: Economics 1 and 3.

11. Industrial Consolidation.—The growth of monopoly. *I*; (3).
Professor ROBINSON

Prerequisite: Economics 10.

12a-12b. Labor Problems.—*I*, *II*; (3). Dr. HOAGLAND

Prerequisite: Senior standing, Economics 1, and three additional hours in economics for which Economics 1 is a prerequisite. *Or:* Senior standing and Economics 1 for students whose major is one of the social sciences.

13. Economic Development of Europe Since the Industrial Revolution.—*II*; (3). Professor BOGART

Prerequisite: Sixty hours of university work, including Economics 1 and 3. Students who present a statement from the department of history showing that they are taking history as a major, may be admitted without Economics 3.

14. Agricultural Cooperation.—*Open to junior and senior students of agriculture only. II;* (2). Dr. STEWART

Prerequisite: Economics 1 or 2.

15. Rural Credit.—*Open to junior and senior students of agriculture only. I;* (2).
Dr. STEWART

Prerequisite: Economics 1 or 2.

[**17. Economic History of Agriculture.**—Land tenure; large, medium, and small farms; economic conditions and results of extensive and intensive culture; organization; relation to other industries and to the state. *II;* (2). Not given, 1917-18.

Prerequisite: Economics 1 or 2 and junior standing.]

19. Economic History of the United States, 1820-1860.—*I*; (2).
Associate Professor THOMPSON

Prerequisite: Open to graduates and seniors who have had Economics 1 and are taking a major in one of the social sciences.

20. Economic History of the United States Since 1860.—*II*; (2).
Associate Professor THOMPSON

Prerequisite: Open to graduates and seniors who have had Economics 1 and are taking a major in one of the social sciences.

21. Socialism and Economic Reform.—*II*; (2). Professor KINLEY

Prerequisite: Economics 1 and 3. Students who have had 6 hours in history and Sociology 1 and present a statement from the department of sociology showing that they are taking sociology as a major may be admitted without Economics 3.

28. Mechanism and Technic of Domestic Commerce.—Wholesale and retail organizations; markets, fairs, auctions, stock and produce exchanges; department, mail-order, and cooperative stores; commercial travelers; competition; advertising; credit. *I;* (3). Assistant Professor LITMAN

Prerequisite: Economics 1 and 3.

29. Foreign Commerce and Commercial Politics.—*II*; (2).
Assistant Professor LITMAN

Prerequisite: Economics 28.

31. Organization of Foreign Commerce.—Exporting and importing; ocean transportation; line and charter traffic; institutions for furthering export trade; consular service; entry of goods; the custom house. *II;* (3).
Assistant Professor LITMAN

Prerequisite: Economics 28.

94. Public Finance Illustrated by the Financial History of the United States.—*I;* (3). Professor BOGART

Prerequisite: Economics 1 and 3; senior standing.

Courses for Graduates

Students entering on graduate work in economics must have a thoro course in the principles of the science and must also have studied some special part of the field, such as public finance or money and banking.

101. Economic Theory.—*Twice a week; I, II; (1 unit).* Not given, second semester, 1917-18. Professor KINLEY

[104. Foreign Commerce of the United States.—*Twice a week; I, II; (1 unit).* Not given, 1917-18. Assistant Professor LITMAN]

105. Public Finance.—Public revenue and expenditure. *Twice a week; II; (1 unit).* Professor BOGART

[107. The Corporation in Economic Evolution.—*Twice a week; I, II; (1 unit).* Not given, 1917-18. Professor ROBINSON]

[109. Theory of Industrial Consolidations.—*Twice a week; I, II; (1 unit).* Not given, 1917-18.]

[110. Investments.—Nature, character, and functions; classes, including direct investments and securities; methods of judging investments; state control. *Twice a week; I, II; (1 unit).* Not given, 1917-18.]

118. Seminar.—*I, II.* Members of staff

[120. History of Economic Thought.—*Twice a week; I, II; (1 unit).* Not given, 1917-18.]

[122. Advanced Economic History of the United States.—*Twice a week; I, II; (1 unit).* Not given, 1917-18.]

Summer Session Courses

S 2. Principles of Economics.—(3). Assistant Professor THOMPSON

Prerequisite: One year of university work or (for teachers) the permission of the instructor.

S 3. Money and Banking.—(2½). Dr. RUSSELL

Prerequisite: A 5-hour course in the principles of economics or the permission of the instructor.

S 7. Economic History of England.—(2½). Dr. RUSSELL

S 16c. Agricultural Economics.—The economic principles underlying the farming industry and the conditions of rural life. (3). Dr. STEWART

Prerequisite: Economics 1 or 2 or (for teachers) the permission of the instructor.

S 14. Agricultural Cooperation.—Organization, financing, and management of cooperative associations for the promotion of farming. *(2; ½ unit).* Dr. STEWART

Prerequisite: Economics 1 or 2; and the permission of the instructor.

S 61. Economic Theory.—*(2; ½ unit).* Assistant Professor THOMPSON

Prerequisite: A 5-hour course in the principles of economics, and the permission of the instructor.

EDUCATION

CHARLES HUGHES JOHNSTON,[1] Ph.D., *Professor and Chairman*
WERRETT WALLACE CHARTERS, Ph.D., *Professor and Chairman*
HORACE ADELBERT HOLLISTER, A.M., *Professor*
GUY MONTROSE WHIPPLE,[2] Ph.D., *Professor*
JOSEPH LINDSEY HENDERSON, Ph.D., *Visiting Professor (First Semester)*
DAVID SPENCE HILL, Ph.D., *Acting Professor*

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[1] Deceased, September 4, 1917.

[2] On leave of absence, first semester.

John Elbert Stout, Ph.D., *Acting Professor*
John Alford Stevenson, A.M., *Lecturer and Secretary*
James Michael O'Gorman, A.M., *Lecturer*
Warren Kenneth Layton, A.B., *Assistant*
Lewis Ward Williams, Ph.B., *Assistant*
Clara Mabel Smith, A.B., *Assistant*
David Allen Anderson, Ph.D., *Associate Professor of Education, University of Washington (Summer Session)*
Ludwig Rheinhold Geissler, Ph.D., *Assistant Professor of Psychology and Education, Clark College (Summer Session)*
Alvis L Rhoton, A.M., *Professor in Georgetown College (Summer Session)*
Charles Elmer Holley, Ph.D., *Professor of Education, Bellevue College (Summer Session)*
Harriett Josephine Berninger, A.M., *Assistant (Summer Session)*
Coleman Roberts Griffith, A.B., *Assistant (Summer Session)*
Roy H Bracewell, *Assistant Principal of the High School, Springfield, Illinois (Summer Session)*
Cooperating:
Boyd Henry Bode, Ph.D., *Professor of Philosophy*

Major: 20 hours made up from any of the courses offered by the department.

Minor: 20 hours made up from either (a) courses in any one or two university subjects represented in the high school program; or (b) courses in any one or two of the following departments: psychology, sociology, philosophy, and political science; or (c) from one subject in (a) and one in (b).

The courses of the department fall into two general divisions: courses primarily for professional training and courses more specifically designed for general culture. The first division includes courses 1, 4, 6, 10, 15, 18, 20, 27, 41, 42, 43, 45, 101, 106, 112, 119, and 125. The second division, courses 2, 5, and 13.

Introductory Courses

1. **Introduction to Education.**—The American public-school system; principles and aim of education; biological basis, heredity, and environment; instinct, habit, and habit-formation; memory, and the higher mental processes. (This course is required of all students who are given the official indorsement of the Appointments Committee for teaching positions in secondary schools.) *I* or *II;* (4).
Professor Henderson, Mr. O'Gorman, Mr. Layton

Prerequisite: Junior standing. Psychology 1 is desirable.

2a-2b. **History of Education.**—First semester: educational theory, institutions, and practise in Greek, Roman, and medieval civilizations. Second semester: educational theory, institutions, and practise since the Italian Renaissance. State systems of education in the United States. *I, II;* (3). (Either semester may be taken separately.) Mr. O'Gorman

Prerequisite: Junior standing.

Intermediate Courses

10. **The Technic of Teaching.**—Types of classroom exercises and preparation of teaching plans; the hygiene of instruction; classroom management; professional ethics. Observation of teaching in neighboring high schools. (This course with Education 1 is required of all students who are given the official recommendation of the Appointments Committee for teaching positions in secondary schools.) *I* or *II;* (3). Professor Charters, Professor Henderson, Professor Stout

Prerequisite: Education 1.

[16. **Social Education.**—*I*; (3). Not given, 1917–18.]

25. **Educational Psychology.**—(Introductory course.) Instinct; habit and the acquisition of skill; perception and memory; conception, judgment, and reasoning. Lectures; demonstrations. *I;* (3). Professor HILL

Prerequisite: Psychology 1 or Education 1.

Courses for Advanced Undergraduates and Graduates.

4. **Problems of Educational Administration.**—School systems of typical cities and states; recent experiments in administration, discipline, and methods of teaching. *I;* (3). Mr. STEVENSON

Prerequisite: Education 1, 2.

[5. **Comparative Education.**—*I*; (3). Not given, 1917-18.]

6. **Principles of High-School Education.**—Evolution of high schools and of secondary education; proposed reorganization; high schools and the state systems; legal status; articulation with the elementary school, the college, the technical school, the community, and the home; the teaching staff; reconstruction of curriculums; "controls" of instruction; "student activities." (For those who expect to teach in secondary schools.) *I;* (3). Professor HENDERSON

Prerequisite: Education 1 or its equivalent.

27. **High-School Curriculums.**—Historic curriculums for secondary education; modern curriculum-making; professional supervision; text-books, apparatus, and teaching devices; the psychology of high-school subjects; curriculums for typical communities. *II;* (3). Professor STOUT

Prerequisite: Education 1 or 6 (preferably both).

13-14. **Educational Classics.**—Educational writings of Plato, Aristotle, Quintilian, Montaigne, Milton, Locke, Comenius, Rosseau, Pestalozzi, Froebel, and Herbert Spencer. (Ordinarily required for the Doctor's degree in education.) *I, II;* (3). Mr. O'GORMAN

Prerequisite: Education 1, 2.

15. **School Hygiene.**—School architecture and equipment; heating, ventilation, and lighting; posture, exercise, and fatigue; reading and writing; program of studies and daily time table; mental health of teachers and pupils; communicable diseases and the relation of school authorities to health authorities. *II;* (2). Professor WHIPPLE

Prerequisite: Education 1, or normal-school graduation, or two years of teaching experience, with at least junior standing.

18. **Method in Educational Research.**—Statistical and other methods as applied to educational investigation. (This course is ordinarily required of all candidates for advanced degrees.) *I;* (2). Professor HILL

Prerequisite: Education 1, or its equivalent.

[19. **Readings in French and German Educational Literature.**—*I*; (2). Not given, 1917-18.

Prerequisite: Education 1, and moderate facility in reading French and German.]

[20a. **Theory of Supervision.**—Training teachers in service; measuring educational products; qualities of merit and causes of failure in teachers; selection of teachers; organization of teachers' meetings and other agencies for improving the teaching service. *I;* (3). Not given, 1917-18.

Prerequisite: Education 1, or its equivalent.]

41. **Vocational Education.**—The social significance; institutions and methods in elementary and secondary schools; federal, state, and municipal provisions; recent legislation; present tendencies. *I;* (3). Professor HILL, Mr. LAYTON

Prerequisite: Education 1, or an equivalent satisfactory to the instructor.

42. Auxiliary Education.—The institutions and methods for the training of defectives and delinquents; Binet-Simon tests and other methods of mental diagnosis; educational treatment of morons and of moral delinquents; sensory defectives (the blind and the deaf); public institutions of auxiliary education and their administration. *II*; (2). Professor WHIPPLE

43. Mental Tests.—Laboratory drill in the technic of mental tests, including tests of sensory capacities; attention; memory; learning; suggestibility; inventiveness; systems of tests for diagnosis of mental age; general intellectual status; mental retardation. *II;* (2). Professor WHIPPLE

Prerequisite: Education 25 or an equivalent, and the consent of the instructor.

45. Problems in Educational Psychology.—*II*; (2). Professor WHIPPLE

Prerequisite: Education 25 and the consent of the instructor.

Courses for Graduates

101. Seminar in Educational Theory.—The philosophical bases of educational theory. *I; (1 unit).* Professor BODE

106. Seminar in Secondary Education.—Organization, administration, and special methods of secondary education. Reports and discussions of technical investigations in the fields of high school administration and pedagogy. *II; (1 unit).* Professor STOUT

110. Seminar in Methods of Teaching.—Individual investigation of problems of technic. *I; (1 unit).* Professor CHARTERS

[**112. Principles of Education.**—Survey of the American public-school system; leading principles and doctrines of educational science; the technic of teaching and the problems of class management. (For graduate students who are not majoring in education and who have not taken undergraduate courses in education.) *Twice a week; II; (½ unit).* Not given, 1917-18.]

119. The Elementary Curriculum.—The functions and values of elementary-school studies; time allotments; practical exercises in the construction of curriculums. *II; (1 unit).* Professor CHARTERS

125. Seminar in Educational Psychology.—*I; (1 unit).* Professor HILL

Departmental Conference.—All graduate students majoring in education meet with the departmental staff every alternate Monday from 7 to 9 p. m. *I, II; (no credit).*

Summer Session Courses—Education and Psychology

S 1a. Principles of Education.—The function of education; formal and informal education; fundamental principles of physical and mental development and their relation to the art of teaching; educational values. (3). Mr. STEVENSON

Prerequisite: Junior standing.

S 1b. The Educational System.—The school system of the United States, its present organization, its origin, its distinctive characteristics as compared with other systems, its present problems. Lectures; readings. (1). Mr. LAYTON

Prerequisite: Junior standing.

S 2. History of Modern Education.—The development of educational theory and practise from the Renaissance. Duggan: *A student's text book in the history of education.* (2½). Professor RHOTON

Prerequisite: Junior standing.

S 10. The Technic of Teaching.—(3). Professor HOLLISTER, Miss BERNINGER

Prerequisite: Education 1.

S 25. **Educational Psychology.**—Mental activity. Mental heredity, instinct, habit and learning, attention and interest, association, the training of observation, memory, and reasoning. Whipple's *Questions in Psychology;* Colvin and Bagley's *Human Behavior.* (3). Professor GEISSLER

S 4. **School Organization and Administration.**—The establishment of schools and provisions for their administration; units of control; maintenance; training and selection of teachers. (2). Professor ANDERSON

Prerequisite: Education 1 or equivalent.

S 5. **Comparative Education.**—Elementary and secondary schools of the principal foreign countries. (2). Professor ANDERSON

S 6. **The Principles of High-School Education.**—For description see Education 6. (2). Professor JOHNSON, Mr. BRACEWELL

Prerequisite: Education 1, or equivalent.

S 18. **Method in Educational Research.**—(1½). Professor HOLLEY

Prerequisite: Education 1.

S 20. **Supervision.**—For description, see Education 20. (2). Professor HOLLISTER

Prerequisite: Education 1 or equivalent.

S 21. **Units, Scales, and Standards.**—For description, see Education 21. (2). Professor HOLLEY

Prerequisite: Education 1 or equivalent.

S 22. **School Surveys.**—Reports of typical school surveys; the methods employed. Surveying small school systems. (2). Mr. STEVENSON

Prerequisite: Education 1 and 4 or equivalents.

S 43. **Mental Tests.**—For description, see Education 43. (1). Assistant Professor GEISSLER

Prerequisite: Education 25 or equivalent and the consent of the instructor.

S 32. **Moral Education.**—Moral education; aims and methods; relations between church and school. (2). Professor HOLLEY

Prerequisite: Education 1 or its equivalent.

S 104. **Seminar in School Administration.**—Problems in the standardization of schools. (*½ unit*). Professor HOLLISTER

Prerequisite: Graduate standing, with preliminary courses satisfactory to the instructor.

S 105. **Seminar in Comparative Education.**—(Subject to the approval of the Executive Faculty of the Graduate School.) Professor ANDERSON

S 127. **Junior and Senior High-School Curriculums.**—Curriculum organization and special methods in junior and senior high schools; comparisons with foreign secondary school systems. (*1 unit*). Professor JOHNSTON

Prerequisite: Graduate standing, with preliminary courses in education satisfactory to the instructor.

ELECTRICAL ENGINEERING

ELLERY BURTON PAINE, M.S., E.E., *Professor, Acting Head of the Department*

MORGAN BROOKS, Ph.B., M.E., *Professor*

EDWARD HARDENBERGH WALDO, A.B., M.S., M.E., *Assistant Professor, Electrical Design*

PHILIP SHERIDAN BIEGLER, B.S., E.E., *Assistant Professor*

IRA WILLIAM FISK, M.S., E.E., *Assistant Professor*

LEONARD VAUGHAN JAMES, M.S., E.E., *Associate*

ALNER RICHARD KNIGHT, M.E., *Associate*

ERNEST ALEXANDER REID, M.S., *Instructor*

WALTER ARTHUR GATWARD, M.S., *Research Assistant, Engineering Experiment Station*

4. Elementary Electrical Engineering.—Electrical machinery; selection; installation, and operation; distribution of power; motor applications. *II;* (2). Mr. JAMES

Prerequisite: Physics 1a-1b, 3a-3b; junior standing.

8. Electric Currents and Apparatus.—Direct and alternating current circuits and machines; storage batteries. (Especially for students in chemical engineering.) *I;* (3). Mr. JAMES

Prerequisite: Physics 1a-1b, 3a-3b; registration or credit in Mathematics 7; registration in Electrical Engineering 68.

11. Direct Current Apparatus.—Generators, motors, distribution circuits; storage batteries. (For students in mechanical engineering.) *I;* (3). Professor BROOKS

Prerequisite: Physics 1a-1b, 3a-3b; Mathematics 8 or 9.

12. Alternating Current Apparatus.—Generators and motors, transformers, distribution systems. (For students in mechanical engineering.) *II;* (3). Professor BROOKS

Prerequisite: Electrical Engineering 11, 61.

25. Direct Current Apparatus.—Laws of electric and magnetic circuits; construction and operation of direct current generators and motors. *I;* (4). Assistant Professor FISK, Mr. JAMES, Mr. KNIGHT

Prerequisite: Registration in Electrical Engineering 75 and Physics 4a; Mathematics 9.

26. Alternating Currents.—Mathematical and graphical treatment of periodic currents; phenomena in transmission lines and transformers. *II;* (4). Assistant Professor FISK, Mr. JAMES, Mr. KNIGHT

Prerequisite: Electrical Engineering 25; Physics 4a; registration in Electrical Engineering 76.

35. Alternating Current Apparatus.—Transformers and generators. *I*; (4). Professor PAINE, Assistant Professor FISK, Mr. JAMES, Mr. KNIGHT

Prerequisite: Electrical Engineering 26, 76.

36. Alternating Current Apparatus.—Synchronous, induction, and commutator motors; converters; distributed inductance and capacity; transient phenomena. *II;* (4). Professor PAINE, Assistant Professor FISK, Mr. JAMES, Mr. KNIGHT

Prerequisite: Electrical Engineering 35, 85.

55. Electrical Design.—Electromagnets and dynamos, direct and alternating; transformers. *I;* (2). Assistant Professor WALDO

Prerequisite: Electrical Engineering 26; registration in Electrical Engineering 35.

56. Electrical Design.—Induction motors and converters; power plant design. Gebhardt: *Steam Power Plant Engineering. II;* (4). Assistant Professor WALDO

Prerequisite: Electrical Engineering 35; Mechanical Engineering 2.

61. Direct Current Laboratory.—Circuits and machines. (For students in mechanical engineering.) *I;* (1). Assistant Professor BIEGLER, Mr. REID

Prerequisite: Registration in Electrical Engineering 11.

62. Alternating Current Laboratory.—Alternating current circuits and machines. (For students in mechanical engineering.) *II;* (1). Assistant Professor BIEGLER, Mr. REID

Prerequisite: Registration in Electrical Engineering 12.

64. Electrical Engineering Laboratory.—Testing of dynamos and motors. *II*; (1). Assistant Professor Fisk, Mr. Knight

Prerequisite: Registration in Electrical Engineering 4.

68. Electrical Engineering Laboratory.—Direct and alternating current circuits and machines. *I;* (1). Assistant Professor Fisk, Mr. Knight

Prerequisite: Registration in Electrical Engineering 8.

71-72. Electrical Engineering Laboratory.—The construction of special apparatus or other work approved by the department. (Elective for juniors and seniors.) *I, II;* (1-3).[1]

75. Electrical Engineering Laboratory.—Direct current laboratory accompanying Electrical Engineering 25. *I;* (2). Mr. Reid

Prerequisite: Registration in Electrical Engineering 25.

76. Electrical Engineering Laboratory.—Flux and E.M.F. waves of alternators. Alternating current circuits, instruments. *II;* (2). Mr. Reid

Prerequisite: Electrical Engineering 25, 75; registration in Electrical Engineering 26.

85. Electrical Engineering Laboratory.—Advanced alternating current testing. *I;* (2). Assistant Professor Biegler

Prerequisite: Electrical Engineering 76; registration in Electrical Engineering 35.

86. Electrical Engineering Laboratory.—Advanced alternating current testing. *II;* (2). Assistant Professor Biegler

Prerequisite: Electrical Engineering 85; registration in Electrical Engineering 36.

90. Lighting.—Electric lamps and other illuminants, and their effective use; interior wiring; methods of distribution. (For students in architecture.) *I;* (*half semester only*); (1). Professor Brooks

Prerequisite: Junior standing.

92. Lighting and Wiring.—(First half of semester same as E. E. 90.) Distribution and fusing. Underwriters' rules; motors. (For students in architectural engineering.) *I;* (2). Professor Brooks

Prerequisite: Junior standing.

95-96. Seminar.—Electrical railroading; illumination; telegraphy; telephony; storage batteries; electric metallurgy. *I, II;* (1). Professor Paine

Prerequisite: Junior standing.

98. Thesis.—First semester: preliminary reading and investigation; second semester: completion. *I*; (*no credit*). *II*; (3).

99. Inspection Trip.—*I;* (*no credit*).

Prerequisite: Senior standing.

Courses for Graduates

Entrance upon graduate work in electrical engineering presupposes the full undergraduate course in that subject.

101. Advanced Course in Alternating Currents.—The theory of Transient Phenomena; polyphase circuits; measuring apparatus. *Twice a week; I, II;* (*1½ units*). Professor Paine

103. Electrical Design.—Plans for specified machine or apparatus; or for the arrangement of an electrical plant; or for the installation of such machinery or apparatus. *Twice a week; II;* (*1 unit*). Assistant Professor Waldo

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

104. Telegraphy and Telephony.—*Once a week; I, II; (1 unit).*
Professor Brooks

105. Electrical Engineering Research.—Investigation of electrical phenomena or tests of some electrical machine, or of a plant of such machines. *Twice a week; I, II; (1 to 3 units).* Professor Paine

106. Illumination.—*Once a week; I, II; (1 unit).* Professor Brooks

ENGINEERING

(See Architecture, Ceramic Engineering, Civil Engineering, Drawing, Electrical Engineering, Mechanical Engineering, Mechanics, Mining Engineering, Municipal and Sanitary Engineering, Physics, Railway Civil Engineering, Railway Electrical Engineering, and Railway Mechanical Engineering.)

THE ENGLISH LANGUAGE AND LITERATURE

(Including Celtic, Rhetoric, Journalism, and Public Speaking)

Stuart Pratt Sherman, Ph.D., *Professor, Chairman*
Daniel Kilham Dodge, Ph.D., *Professor*
Thomas Arkle Clark, B.L., *Professor*
Ernest Bernbaum, Ph.D., *Professor*
Edward Fulton,[1] Ph.D., *Associate Professor*
Harry Gilbert Paul, Ph.D., *Associate Professor*
Edward Chauncey Baldwin, Ph.D., *Assistant Professor*
Franklin William Scott,[2] Ph.D., *Assistant Professor, Secretary*
Harrie Stuart Vedder Jones, Ph.D., *Assistant Professor*
Jacob Zeitlin, Ph.D., *Assistant Professor*
Homer Edwards Woodbridge, A.M., *Visiting Professor*
Herbert LeSourd Creek, Ph.D., *Associate*
Clarence Valentine Boyer, Ph.D., *Associate*
Gertrude Schoepperle, Ph.D., *Associate*
Harry Franklin Harrington, A.M., *Associate*
Harold Newcomb Hillebrand,[3] Ph.D., *Associate*
Harrison McJohnston, A.M., *Associate*
Martha Jackson Kyle, A.M., *Instructor*
Clarissa Rinaker, Ph.D., *Instructor*
Easley Stephen Jones, A.M., *Instructor*
Mervin James Curl, A.M., *Instructor*
Roger Sherman Loomis, B.Litt., A.M., *Instructor*
Robert Calvin Whitford, A.M., *Instructor*
Allene Gregory, Ph.D., *Instructor*
Robert Bruce Weirick, A.M., *Instructor*
Harry Torsey Baker, A.M., *Instructor*
Lew R Sarett, A.B., LL.B., *Instructor*
Emerson Grant Sutcliffe, A.M., *Instructor*
Ruth Kelso, A.M., *Assistant*
James Manley Phelps, A.M., *Assistant*
Beatrice Virginia Copley, A.M., *Assistant*

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[1] On leave of absence.
[2] On leave of absence, first semester.
[3] On leave for military service.

FREDERICK IRVIN MYERS,[1] A.M., *Assistant*
CHESTER CLYDE HARBISON, A.B., *Assistant*
GERALD DARFIELD STOPP,[2] A.B., *Assistant*
ALTA GWINN SAUNDERS, A.M., *Assistant*
PAUL NISSLEY LANDIS, A.M., *Assistant*
SOLTON ENGEL, A.B., *Assistant*
OLIVE DEANE HORMEL, A.B., *Assistant*
JESSIE MAY TOLAND, A.B., *Assistant*
CLYDE BYRON BECK, A.M., *Assistant*
Cooperating:
ARTHUR RAY WARNOCK, A.B., *Assistant Dean of Men*
FRED LEWIS PATTEE, A.M., D.Litt., *Professor of English in Pennsylvania State College (Summer Session)*
RALPH EARL TIEJE, Ph.D., *Instructor in the Summer Session*
CLARENCE LESTER MENSER, M.A., *Instructor in Public Speaking in Idaho State College, Associate in Public Speaking in the Summer Session*

Major: 20 hours in English, excluding Rhetoric 1-2 and English 10, and including at least 10 hours in English literature, at least 3 hours in composition, and at least 1 one-year course, or its equivalent, from the advanced group of courses.

Minor: 20 hours in either (a) one foreign language; or (b) in any two foreign languages; or (c) in one foreign language and philosophy; or (d) in one foreign language and history.

A. ENGLISH LITERATURE AND LANGUAGE

Elementary Courses

1-2. **Survey of English Literature.**—(Credit is not given for either semester separately, nor for the course in addition to course 10-11 or course 20.) *I, II;* (4).

Professor SHERMAN, Assistant Professor BALDWIN, Dr. RINAKER, Dr. CREEK, Miss KYLE

Prerequisite: One year of college work.

10-11. **Introduction to Literature.**—First semester: the forms of poetry. Second semester: the forms of prose literature. (This course is intended only for those who expect to include a considerable amount of literature, in English or in some other language, in their curriculum. Credit is not given for the course in addition to English 1-2 or 20 nor for the first semester separately. One semester's work is credited toward a major in English.) *I, II;* (3).

Professor DODGE, Associate Professor PAUL, Assistant Professor JONES, Assistant Professor ZEITLIN, Mr. BAKER, Mr. LOOMIS

Prerequisite: The minimum entrance requirements in English.

12-13. **American Literature.**—(Credit is not given for either semester separately.) *I, II;* (2). Associate Professor PAUL, Mr. JONES

Prerequisite: English 1-2 or 10-11.

20. **Chief English Writers.**—For those whose program admits of but one semester's work in English, and who therefore may not register for English 1. It is not accepted as a prerequisite for more advanced courses. Credit is not given for the course in addition to English 1 or 10. *I* or *II;* (4).

Dr. BOYER, Dr. GREGORY, Mr. JONES, Mr. WHITFORD, Mr. BAKER, Mr. LOOMIS

Prerequisite: One year of college work.

23. **Introduction to Shakespeare.**—*I* or *II*; (3). Professor SHERMAN

Prerequisite: English 1-2 or 10-11.

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[1] Resigned October 26, 1917.
[2] Resigned November 3, 1917.

Intermediate Courses

Prerequisite: Eleven hours of English literature, or eight hours of English literature and eight hours of a foreign language.

21-22. Literary Study of the Bible.—Hebrew literature as an expression of the life of the race that produced it; the debt, both ethical and artistic, of modern life to ancient Hebrew thought. (Either semester may be taken separately.) *I, II*; (3). Assistant Professor BALDWIN

24. English Literature of the Victorian Period.—*II*; (3). Miss KYLE

29. English Literature From 1557 to 1688, Exclusive of the Drama.—*I*; (3). Assistant Professor BALDWIN

31. English Literature From 1688 to 1789.—*II*; (3). Associate Professor PAUL

33. English Literature From 1789 to 1837.—*I*; (3). Assistant Professor ZEITLIN

Courses for Advanced Undergraduates and Graduates

Prerequisite: Sixteen hours of English literature; or junior or senior standing and the approval of the instructor concerned.

3. The Poetry of Milton.—Origins, forms, artistic and ethical values; Milton's place in English literary history. *II*; (3). Assistant Professor BALDWIN

4. English Versification.—History and technic; reading of representative poems; verse composition conferences. *I*; (2). Dr. CREEK

5. Shakespeare.—Intensive study of six plays, with special emphasis on *Hamlet*. *II;* (3). Professor DODGE

25. Chaucer.—*I*; (3). Assistant Professor JONES

8-9. Old English (Anglo-Saxon).—Grammar; short poems; *Beowulf*. (The first semester may be taken separately.) *I, II*; (3). Professor DODGE

[**27. English Literary Periodicals and the Genesis of the Periodical Essay in the 17th and 18th Centuries.**—*I*; (2). Not given, 1917-18. Assistant Professor SCOTT]

[28. The Magazine in America.—*II*; (2). Not given, 1917-18. Assistant Professor SCOTT]

41. The Teaching of English Literature.—*I*; (2). Associate Professor PAUL

42. The Teaching of English Composition.—*II*; (2). Associate Professor PAUL

16. Development of English Prose.—Theory and practise of prose style from the year 1500 onward, with special reference to classical and French influences. *II;* (3). Assistant Professor ZEITLIN

Prerequisite: Credit for either entrance or college Latin or French.

35-36. The English Drama (Exclusive of Shakespeare).—First semester: from the beginning to 1600. Second semester: from 1600 to 1700. (Either semester may be taken for separate credit.) Second semester not given, 1917-18. *I, II*; (3). Professor DODGE

37. Folk-Lore.—Primitive customs and beliefs surviving in English poetry; folk lyric and drama; early satire and gnomic literature. *I*; (2). Dr. SCHOEPPERLE

38. The Arthurian Tradition in England.—The historical Arthur; Celtic tales; old French romances (in translation); the tradition in England from the early romances to Arnold, with special attention to Malory and Tennyson. *II*; (2). Dr. SCHOEPPERLE

39. Introduction to the Literature of the Middle Ages.—Classical influences; principal types: epic, romance, legend, lay, allegory, fabliau, lyric; important poems, English and continental, read in translation. *II*; (3). Dr. CREEK

45. **The Development of the Modern Drama.**—Dramatic tendencies in the nineteenth century, both in England and on the Continent; representative readings, and lectures from the standpoint of comparative literature. *I*; (3).
Professor WOODBRIDGE

52. **The Great Novelists of the Nineteenth Century.**—Scott, Jane Austen, Dickens, Thackeray, Hawthorne, George Eliot, Meredith, Hardy, Stevenson, etc. *II*; (3). Professor BERNBAUM

53. **Matthew Arnold.**—His prose and poetry with special reference to the main currents of nineteenth century thought. *II*; (3). Professor SHERMAN

60a-60b. **Thesis.**—Special training in investigation for candidates for honors and for other seniors. *I*, *II*; (1). Assistant Professor ZEITLIN and others

Courses for Graduates

101. **Research in Special Topics.**—Guidance in writing theses for advanced degrees. *I, II; (1 or 2 units.)* Professor SHERMAN, Professor DODGE, Professor BERNBAUM, Associate Professor FULTON, Associate Professor PAUL, Assistant Professor BALDWIN, Assistant Professor SCOTT, Assistant Professor JONES, Assistant Professor ZEITLIN, Professor WOODBRIDGE

110. **Old English (Anglo-Saxon) Poetry.**—*Twice a week. I; (1 unit).*
Professor DODGE

112. **The History of the English Language.**—*I, II; (1 unit).*
Assistant Professor ZEITLIN

[114. **The Development of the Essay.**—Types of the English essay; continental influences and classical origins. *I, II; (1 unit).* Not given, 1917-18.
Assistant Professor ZEITLIN]

120. **History of Literary Criticism.**—Critical standards from Aristotle to Sainte-Beuve; the main types of criticism. *Twice a week; I; (1 unit).*
Professor WOODBRIDGE

126. **Ballads.**—The relation of folk poetry to literature. *I; (1 unit).*
Dr. SCHOEPPERLE

127. **Metrical Romances.**—The beginnings of verse fiction. *II; (1 unit).*
Dr. SCHOEPPERLE

[128. **Spenser and the Beginnings of the English Renaissance.**—The persistence of certain medieval traditions reinforced by the revival of classical learning; Catholicism and Calvinism as sources of literary inspiration. *I, II; (1 unit).* Not given, 1917-18. Assistant Professor JONES]

129. **English Literature from the Norman Conquest to Chaucer.**—Readings in Middle English authors exclusive of Chaucer and lectures on the literature of the period. *I, II; (1 unit).* Assistant Professor JONES

[135. **Problems in American Literature.**—*I, II; (1 unit).* Not given, 1917-18.
Associate Professor PAUL]

136. **The Transition from the Seventeenth to the Eighteenth Century, 1675-1725; the Rise of Classicism.**—*Twice a week. I, II; (1 unit).*
Associate Professor PAUL

137. **Nineteenth Century Prose Writers.**—The relation of literature to social forces; the works of Mill, Carlyle, Newman, Ruskin, Arnold, and Pater. *Twice a week. I, II; (1 unit).* Professor SHERMAN

[138. **The Romantic Movement in England.**—*I, II; (1 unit).* Not given, 1917-18. Professor SHERMAN]

140. Investigation in Modern English Literature.—For second and third year graduate students who are preparing theses for the doctor's degree. May be taken in successive years. *Three hours, once a week; I, II; (1 to 3 units).*

Professor BERNBAUM

141. The History of Seventeenth Century English Literature to about the year 1675, beginning with Shakespeare's Sonnets.—*I, II; (1 unit).*

Professor BERNBAUM

143. The Origins of the English Novel, and its History to the End of the Eighteenth Century.—The first semester may not be taken separately. *I, II; (1 unit).*

Professor BERNBAUM

Summer Session Courses

S 2a. Survey of English Literature.—First half of the nineteenth century. (2).

Mr. WEIRICK

Prerequisite: One year of college work or the equivalent.

S 2b. Survey of English Literature.—English literature from 1850 to 1892. (A continuation of English S 2a, and the two must be taken simultaneously.) (2).

Mr. TIEJE

Prerequisite: One year of college work or the equivalent.

S 12. American Literature.—Bryant, Irving, Cooper, Hawthorne, Emerson, Poe, Longfellow, Whittier, Lowell. Lectures, discussions, readings, and reports. (2).

Associate Professor PAUL

Prerequisite: One year of college English or the equivalent.

S 23. Shakespeare.—Two Gentlemen of Verona, Midsummer Night's Dream, Richard III, Romeo and Juliet, Much Ado, Twelfth Night, Othello, Lear, Winter's Tale, Tempest. (2½).

Assistant Professor JONES

Prerequisite: One year of college English or an equivalent.

S 41. English for Teachers.—Outlining courses in English; classics used in high schools; correcting and grading compositions; library equipment; problems in the teaching of English. Lectures; discussions; reports. (1½).

Associate Professor PAUL

Prerequisite: Sixteen hours of English literature. Open to any upperclassman with the consent of the instructor. (Not credited toward advanced degrees, or toward a major in English.)

S 8. Old English (Anglo-Saxon).—Grammar, with specimens of prose. (3); (*¼ unit*).

Professor DODGE

Prerequisite: Two years of college English.

S 25. Chaucer.—Selections from the *Canterbury Tales*. Text: Skeat's *Student's Chaucer*. (2½)

Assistant Professor JONES

Prerequisite: Two years of college work or equivalent.

S 45. Contemporary European Drama.—The "theater of ideas," Teutonic naturalism, and the peasant drama of England and Ireland. Modern stagecraft. Ibsen, Strindberg, Hauptmann, Schnitzler, Hofmannstahl, Zola, Becque, Brieux, Hervieu, Maeterlinck, Shaw, Galsworthy, Masefield, Barker, Synge, Fitch, Moody, and others. (3).

Professor DODGE

Prerequisite: Sixteen hours of English literature. Open to any upperclassman or graduate student with the consent of the instructor.

S 55. English Literature of the Nineteenth Century.—The evolution of the England of today from the England of the eighteenth century. (2½).

Professor PATTEE

Prerequisite: Sixteen hours of English literature. Open to any upperclassman with the consent of the instructor.

S 101. **Research in Special Periods.**—Individual conferences with graduate students engaged on definite pieces of investigation. Professors Dodge and Pattee, Associate Professor Paul, Assistant Professor Jones

S 135. **The National Period in American Literature.**—American life and letters since the war between the states. (*1 unit.*) Professor Pattee

S 136. **The Rise of Neo-Classicism.**—The literary relations of France and England at the end of the seventeenth century. Lectures, readings, theses. (*1 unit.*) Associate Professor Paul

B. CELTIC

The following courses are open to juniors, seniors, and graduate students without prerequisite. Celtic 1 is not prerequisite for Celtic 2. Neither may be counted toward a major in English.

1. **Celtic Civilization.**—Social life in ancient Ireland; survivals of custom and belief in Scotland and Wales; Celtic literature and folk-lore as reflecting Celtic life. *I*; (2). Dr. Schoepperle

2. **Celtic Literature in English Translation.**—The Cuchullin and Ossianic Romances, the Mabinogion, Bardic poetry, Voyages, etc. The Irish Renaissance. *II*; (2). Dr. Schoepperle

C. RHETORIC

Elementary Courses

1-2. **Rhetoric and Themes.**—Required for students in the Colleges of Liberal Arts and Sciences, Commerce, Engineering, and Agriculture. The course is not counted toward a major in English. *I, II;* (3). Assistant Professor Scott in charge; Assistant Professor Jones, Professor Woodbridge, Dr. Creek, Dr. Boyer, Miss Kyle, Dr. Rinaker, Dr. Schoepperle, Mr. Curl, Mr. Whitford, Dr. Gregory, Mr. Loomis, Mr. Weirick, Mr. Baker, Mr. Sutcliffe, Miss Kelso, Mr. Beck, Miss Copley, Mr. Myers, Mr. Landis, Mr. Stopp, Mr. Harbison, Mr. Engel, Miss Toland, Mrs. Saunders, Miss Hormel

Prerequisite: The minimum entrance requirements in English.

Intermediate Courses

3a.[1] **Exposition.**—Themes or topics of general interest; analyses of facts and ideas, literary reviews, and criticisms; informal essays. *I* or *II;* (3).
Mr. Jones, Miss Kyle

Prerequisite: Rhetoric 1-2.

3b.[1] **Exposition.**—Themes on topics of especial interest to students in engineering, agriculture, science, and commerce. *I;* (3). Mr. Curl

Prerequisite: Rhetoric 1-2.

3c.[1] **Argument.**—Wide reading on both sides of current questions; writing of briefs and of three long arguments. *I;* (3). Mr. Loomis

Prerequisite: Rhetoric 1-2.

3d.[1] **Description and Simple Narrative.**—*II*; (3). Mr. Curl

6-7. **Narrative Composition.**—Practise in short story writing. (Intended for those who have some aptitude for literary work.) *I, II;* (3). Mr. Curl

Prerequisite: Two years of college work and the consent of the instructor.

10. **Business Writing.**—Correspondence; sales letters; business reports and summaries. Lectures; discussions. (Not counted toward a major in English.) *I* or *II;* (2). Dr. Creek, Mr. McJohnston, Mr. Warnock

Prerequisite: Rhetoric 1-2.

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[1] Not more than 6 hours' credit may be earned in Rhetoric 3; to obtain 6 hours, two different types of composition must be elected.

22. **Summarizing and Briefing.**—Summarizing, briefing, and making reports; abstracts of correspondence on file; summarizing of commercial and economic data for the solution of business problems. (For students in the College of Commerce and Business Administration.) *II;* (2). Mr. McJohnston

Prerequisite: Rhetoric 10.

Courses for Advanced Undergraduates and Graduates

15-16. **Editorials and Special Articles.**—Sources and treatment of material for editorials and articles; the interpretation of news; journalistic backgrounds; the relation of current events to the social sciences. Assigned readings; preparation of editorials, feature articles, and reviews. *I, II;* (3). First semester not given, 1917-18. Mr. Baker

17. **Advanced Composition.**—Structure; criticism of current periodical literature; development of material for reports and magazine articles. (Open to a limited number of students, and only on recommendation.) *II;* (3). Mr. Weirick

Prerequisite: Two years of college work.

Summer Session Courses

S 1. **Rhetoric and Themes.**—Structure; grammar; punctuation; the sentence; reasoning processes. Four short themes a week and an occasional long theme. Oral and written exercises. (3). Mr. Weirick, Mr. Tieje, Mr. Sutcliffe

Prerequisite: Entrance credit in English.

S 2. **Rhetoric and Themes.**—Argumentation, narration, and description. (3). Mr. Tieje

Prerequisite: Rhetoric 1.

S 17. **Advanced Composition.**—Structure; criticism of current periodical literature; development of material for magazines. (Open to a limited number of students, and only on approval.) (3). Mr. Weirick

D. JOURNALISM

1. **The Collecting and Writing of News.**—Drill in gathering news; exercises and assignments in writing the news-story; types of newspaper narratives; news values considered with the aid of representative newspapers on file in the laboratory. *I;* (3). Mr. Harrington

Prerequisite: Rhetoric 1-2.

2. **The Newspaper.**—(A continuation of Journalism 1.) Interviewing and newspaper correspondence; the organization and mechanical details of the newspaper. Syndicates, bureaus, press associations. Practise in writing for newspapers. *Six laboratory periods and three lectures a week. II;* (3). Mr. Harrington

Prerequisite: Rhetoric 1-2; Journalism 1.

3-4. **Editorial Practise.**—The reading of "copy," building of headlines, rewriting, making up, editorial supervision, proof reading, and type selection. *Five hours' work on the desk and one lecture a week. I, II;* (3). Mr. Harrington

Prerequisite: Journalism 1 and 2, or the consent of the instructor.

5. **Newspaper Problems and Policies.**—The relation of the newspaper to the public. Ethical aspects in the treatment of news, display, editorials, and advertising. *I;* (2). Mr. Harrington

Prerequisite: One course in journalism.

6. **Making a Country Newspaper.**—Small town conditions: problems affecting rural newsgathering; country correspondence; circulation; advertising; business efficiency; print-shop equipment. Special investigations. (Discussions intended primarily for juniors and seniors interested in the publication of country weeklies and small city dailies.) *II;* (2). Mr. HARRINGTON

Prerequisite: Junior or senior standing.

[8. **Agricultural News Writing.**—Class exercises; lectures; assignments in gathering and preparing material for agricultural and country papers. *II;* (3). Not given, 1917-18. Assistant Professor SCOTT]

9-10. **Editorials and Special Articles.**—(See Rhetoric 15-16.)

20. **English Literary Periodicals.**—(See English 27.)

21. **The Magazine in America.**—(See English 28.)

See also Business Organization and Operation 10 (Organization and Operation of Newspaper Publishing).

E. PUBLIC SPEAKING

1. **Oral Expression.**—Public and private address; mannerisms; vocal purity and power; self-confidence and poise. *I;* (2).

Mr. SARETT in charge, Mr. PHELPS, Mr. HARBISON, Mr. STOPP

NOTE: Credit is not given for this course unless it is followed by Public Speaking 2 or 10.

Prerequisite: Rhetoric 1-2.

2. **Extemporaneous Speaking.**—Organization of original materials; composition for practical public speaking; adaptation of speaking manner to subject matter; discussion of topics of current interest. *II;* (2).

Mr. SARETT, Mr. PHELPS, Mr. HARBISON, Mr. STOPP

Prerequisite: Public Speaking 1.

3. **Argumentation.**—Argumentative discourse; meeting the contentions of an opponent; analytical and constructive thinking; briefing, speech-writing, detection of fallacies in popular argument, criticism of the literature of debate. Text and exercises. *I;* (3). Mr. SARETT

Prerequisite: Public Speaking 1 and 2.

4. **Debate.**—Spoken debate, particularly political and intercollegiate discussions; team competition, adaptation of argument to audience; popular debate; practise debates before real audiences. *II;* (3). Mr. SARETT

Prerequisite: Public Speaking 3.

5. **Persuasion.**—The winning of individuals and audiences by means of written and spoken appeal; psychological sources of human action; matter; platform manner and methods. *I;* (2). Mr. SARETT

Prerequisite: Public Speaking 1 and 2.

6. **Forms of Public Address.**—Persuasion; composition and delivery of legislative, political, commemorative, dedicatory, inaugural, and academic addresses; the sales talk, plea for a client, the college oration, commencement address, lyceum lecture, and after-dinner talk. *II;* (2). Mr. SARETT

Prerequisite: Public Speaking 1 and 2. Public Speaking 5 is recommended.

7. **A Study of Orators and Oratory.**—The lives, times, and works of distinguished speakers. Required readings and reports, chiefly oral in the form of speeches; discussions, topical speeches, and declamations. *I;* (2). Mr. SARETT

Prerequisite: Public Speaking 1 and 2.

10. **Interpretation and Dramatization of Literature.**—Oral interpretation of standard literature; interpretation and staging of plays. *II;* (2). Mr. PHELPS

Prerequisite: Public Speaking 1.

Summer Session Courses

S 1. Oral Expression.—Vocal methods, relation of the voice to the interpretation of thought. (2). Mr. Menzer

Prerequisite: Rhetoric 1 and 2 or equivalent.

(Credit is not given for this course unless it is followed by Public Speaking 2, 10, or their equivalents.)

S 10. Interpretation and Dramatization.—Oral reading of types of literature; stage action: staging and acting several one-act plays. (2). Mr. Menzer

Prerequisite: Public Speaking 1 or equivalent.

S 11. Problems in the Teaching of Oral English.—Primarily for high school teachers. (1). Mr. Menzer

Prerequisite: The consent of the instructor.

ENTOMOLOGY

Stephen Alfred Forbes, Ph.D., LL.D., *Professor*
Alexander Dyer MacGillivray, Ph.D., *Professor*
Justus Watson Folsom, D.Sc., *Assistant Professor*
Robert Douglas Glasgow, Ph.D., *Instructor*
Edna Mosher, Ph.D., *Instructor*
Lewis Bradford Ripley, M.S., *Assistant*

Major: 20 hours from courses offered in the department, except Entomology 1a-1b, 4, 16, and 19.

Minors: 20 hours in botany, physiology, zoology, horticulture, and agronomy (see page 118).

Beginning courses open to freshmen and without prerequisites are 1a, 1b, and 4. Course 1a may best be followed by 2 or 4, course 1b by 2 or 7, and course 15 by 7 for juniors and 18 for seniors. Students preparing for service as economic entomologists should take as many of the courses offered as possible, including especially 1a, 2, 4, 7, and 8. Those preparing for the teaching of zoology should take 1a or 1b, and 2 and 4 or 15 and 14.

Courses for Undergraduates

1a. Elementary Entomology.—Structure, function, interrelations, origin, and development of insects, and the simpler generalizations of biological theory illustrated with insect material. Recommended as preliminary to Entomology 4, and for prospective teachers of zoology. Lectures, field, laboratory, and quiz work. (Students may not receive credit for both 1a and 1b.) *I* or *II;* (3).

Assistant Professor Folsom, Dr. Glasgow

1b. Elementary Entomology—Life, development, anatomy, and classification of insects; identification of some common species. (For those who wish to acquaint themselves with the most interesting phases of insect life, especially as a preparation for teaching.) (Students may not receive credit for both 1a and 1b.) *I;* (3).

Professor MacGillivray, Dr. Mosher

2. General Entomology.—Morphological, physiological, and systematic entomology: collection and preservation of specimens: field observations: adaptive structures; classification and determination of insects; life histories. *I;* (5).

Assistant Professor Folsom, Dr. Glasgow

Prerequisite: Entomology 1a or 1b.

7. Systematic Entomology.—The external anatomy of insects; terminology of the parts: identification of specimens representing as many as possible of the major groups. *II;* (5). Professor MacGillivray

Prerequisite: Entomology 1a or 1b.

9. Advanced Systematic Entomology.—The identification of the characters on which genera and species are based. *I;* (5). Professor MACGILLIVRAY

Prerequisite: Entomology 7.

4. Introduction to Economic Entomology.—Lectures; field work; laboratory. (Primarily for students in the College of Agriculture; may not be counted for satisfaction of group requirements in the College of Liberal Arts and Sciences.) *I* or *II;* (3). Assistant Professor FOLSOM, Dr. GLASGOW

19. Insects of the House, Garden, and Home Premises.—Life history, identification, and methods of control of insects which may affect the food, clothing, or health; common pests of garden and ornamental plants. (Primarily for students in household science.) *I* or *II;* (2). Dr. MOSHER

Prerequisite: One year of university work.

16. Apiculture.—The essentials of bee-keeping. Practical operations; laboratory observations; collateral reading. *II;* (2). Assistant Professor FOLSOM

13. Medical Entomology.—Insects and the transmission of disease; methods of control and prevention. (Primarily for advanced students preparing for medicine.) *I;* (3). Dr. GLASGOW

Prerequisite: Zoology 3, or its equivalent in microscopic technic.

5. Introduction to Research.—Library, language, manuscript, and advanced laboratory work on assigned topics. (Required as a preparation for thesis work.) *I* or *II;* (3). Professor MACGILLIVRAY, Assistant Professor FOLSOM

Prerequisite: Entomology 1, 2, 4, 8, or 1, 7, 9.

6a-6b. Thesis Investigation.—Subject selected during the junior year. Three hours a day given to investigation, under the supervision of an instructor during the senior year. *I* or *II;* (5).
Professor MACGILLIVRAY, Assistant Professor FOLSOM

Prerequisite: Entomology 5.

Courses for Advanced Undergraduates and Graduates

15. Introductory Course.—Metamorphosis and development of insects, characteristics of the orders, suborders, and more important families: habits of representative species; anatomy of immature and adult insects; classification of insects. (Not open to students who have had courses 1 and 2. Those who have had only one of the above courses, may take this course for half credit only.) *I;* (3).
Professor MACGILLIVRAY

Prerequisite: Two years of university work.

8a-8b. Advanced Economic Entomology.—Assigned problems. Field, laboratory, insectary, library, and manuscript work, with practise in the operations of economic entomology. (Intended to prepare students for service as entomologists in experiment stations and other state and government positions. Agronomy 7 and Horticulture 1, 2, and 3 should also be taken as a part of this preparation.) *I, II;* (3). Assistant Professor FOLSOM

Prerequisite: Entomology 4.

10. Taxonomy of Immature Insects.—*I* or *II;* (3).
Professor MACGILLIVRAY, Dr. MOSHER

Prerequisite: Entomology 7 or 18a.

11. Classification of the Coccidae.—Preparing scale insects for study; identification of genera and species; morphology, metamorphosis, and phylogeny. *II;* (5).
Professor MACGILLIVRAY, Dr. MOSHER

Prerequisite: Entomology 7 or 18a.

17a-17b. Insect Organogeny.—Organs of adult and immature insects. Laboratory. *I, II;* (3). (½ *unit.*) Professor MacGillivray, Dr. Mosher

Prerequisite: Entomology 7 and 9; senior standing.

18a-18b. Insect Taxonomy.—Structures used in the classification of insects and the identification of a representative collection of insects. Laboratory. *I, II;* (5). Dr. Mosher

Prerequisite: Three years of university work.

12a-12b. Current Literature.—Reports and discussion on assigned topics; presentation and discussion of contents of recent publications, and of results of personal research. *I, II*; (1). Assistant Professor Folsom

Prerequisite: One year of work in entomology.

Courses for Graduates

102. Research in the Morphology and Embryology of Insects.—*Twice a week; I, II; (1 or 2 units).* Assistant Professor Folsom

108. Research in Economic Entomology.—*Twice a week; I, II; (1 or 2 units).* Assistant Professor Folsom

109. Research in Systematic Entomology.—*Twice a week; I, II; (1 or 2 units).* Professor MacGillivray

Summer Session Courses

S 1. General Field and Laboratory Course.—Essential facts of entomology; its economic importance. Lectures; laboratory; field trips. (2). Assistant Professor Folsom, Dr. Glasgow

S 3. Economic Entomology.—Stages of development of common injurious insects. Laboratory; field trips. (3). Assistant Professor Folsom, Dr. Glasgow

S 2. Advanced Course.—Instruction to meet the purposes of the individual student. (2 or 3). Assistant Professor Folsom, Dr. Glasgow

S 4. Advanced Economic Entomology.—Assigned problems in economic entomology, to prepare advanced students for immediate service as state and government entomologists. (3). Assistant Professor Folsom, Dr. Glasgow

Prerequisite: 15 hours' credit in general and economic entomology.

FARM ORGANIZATION AND MANAGEMENT

Walter Frederick Handschin, B.S., *Assistant Professor*
James Burton Andrews, B.S., *Instructor*

1. Elementary Farm Management.—The factors of production; systems of farming, their distribution and adaptation; farm organization; distribution of capital; planning the farm; farm administration or operation; planning of work; labor; management efficiency. Lectures; quiz. (The trip required in this course is the same as in Animal Husbandry 29.) *II*; (3). Assistant Professor Handschin, Mr. Andrews

Prerequisite: Three semesters of required work; Economics 1 or 2 and Accountancy 1 or 11. It is also very important that the student have credit or be registered in Agronomy 12, and have at least 6 hours credit in Animal Husbandry 1b, 2b, 4b, or 11b.

FINE ARTS

(See Art and Design and Music. Attention is called also to the courses in Esthetics offered by the departments of Philosophy, Education, Architecture, and Household Science.)

FLORICULTURE

(See Horticulture.)

FRENCH

(See Romance Languages and Literature.)

GEOLOGY

(Including Mineralogy, Paleontology, and Geography)

Eliot Blackwelder, Ph.D., *Professor*
Charles Wesley Rolfe, M.S., *Professor*, Emeritus
William Shirley Bayley, Ph.D., *Professor*
Thomas Edmund Savage, Ph.D., *Associate Professor*
John Lyon Rich, Ph.D., *Associate*
Charles Weldon Tomlinson, Ph.D., *Associate*
Luther Eugene Kennedy, A.M., *Assistant*
Ralph Daniel Reed, A.B., *Assistant*

Major: One of the elementary courses (1, 3, 13, 5, or 35), followed by 20 hours in courses that have prerequisites in the department, except that courses 5 and 14 may be included by students who take course 1, 3, or 35.

Minors: 20 hours selected from any one or two of the following departments: astronomy, botany, chemistry, entomology, physics, and zoology. Students specializing in geography may add to this list sociology, economics, or history.

Courses for Undergraduates

1. General Geology.—The material and structure of the earth, processes of change at work on and in it, origin of its mineral resources, and a summary of its history. Four hours discussion; two hours laboratory; two field trips. (Not open to students who have had Geology 3 or 13. Students who have had Geology 35 will receive only 3 hours credit.) *I* or *II*; (5).
Professor Blackwelder, Dr. Tomlinson, Mr. Reed

35. General Geography.—Features and processes of the lands, oceans, and atmosphere. Recitations; laboratory; two Saturday field trips. (Students who have had Geology 1 to 3 will receive only three hours' credit in Geology 35). *I* or *II;* (5).
Dr. Rich

5. General Mineralogy.—The commoner minerals of scientific and economic importance; crystallography and blow-pipe analysis. Lectures; laboratory. *I*; (5).
Professor Bayley, Mr. Kennedy

Prerequisite: Chemistry 1 and 2, or equivalent.

5a. Rock-Forming Minerals.—(A continuation of Geology 5.) The silicate minerals. Quiz; laboratory. *II*; (3).
Professor Bayley

Prerequisite: Geology 5.

13a. Physical Geology.—Minerals and rocks. Lectures; laboratory. (For students in technical courses.) *I*; (3).
Professor Bayley

Prerequisite: Chemistry 1, 2a; Physics 1a-1b, or equivalent.

13b. Physical Geology.—Dynamic and structural geology. Lectures; laboratory. *II*; (3).
Professor Bayley, Mr. Kennedy

Prerequisite: Geology 13a.

14. Meteorology.—The atmosphere and its processes; ocean currents; climate, weather and forecasting. *I;* (3).
Dr. Rich

9. Invertebrate Paleontology.—The more important fossils, in biological groups. Lectures; laboratory. *I*; (5). Associate Professor SAVAGE

Prerequisite: Geology 1 or 3; or 12 hours in zoology.

22. History of Organic Evolution.—The evolution of plants and animals, as indicated by the fossil record. *I*; (3). Associate Professor SAVAGE

Prerequisite: Geology 1 or 3, or Zoology 1, or Botany 1.

2. Economic Geology.—Origin and distribution of the important mineral deposits of North America. Lectures; recitations. *II*; (3). Dr. TOMLINSON

Prerequisite: Geology 1 and 5, or 13b.

4a. Structural Geology.—Nature and origin of the sedimentary, igneous, and deformative structures of rocks. Discussions; laboratory. *II*; (3). Professor BLACKWELDER

Prerequisite: Geology 1, 3 or 13, or 35.

36. Petrology.—Laboratory and field identification of the common rocks. Laboratory. *II*; (2). Dr. TOMLINSON, Mr. KENNEDY

Prerequisite: An elementary course in geology.

40. Reconnaissance Surveys.—Rapid methods of making topographic and geologic surveys. Exploratory mapping. Field and laboratory. (Primarily for military and geology students.) *I*; (1). Dr. TOMLINSON

Prerequisite: Consent of instructor.

[8. **Geography of Europe.**—Effect of the physiographic features of Europe on its climate, resources, inhabitants, and their activities. *II;* (3). Not given, 1917-18. Dr. RICH

Prerequisite: Geology 1, 3, or 35.]

8a. Geography and the War.—Geographic aspects of the causes of the war; geographic features of the countries involved; influence of topographic, climatic, and other geographic conditions on the conduct of the war; geographic considerations involved in post-war problems. Lectures, readings, map study. *II;* (3). Dr. RICH

[10. **Geography of Central and South America.**—Similar to Geology 8. *II;* (3). Not given, 1917-18.

Prerequisite: Geology 1, 3, or 35.]

[11. **Geography of North America.**—Similar to Geology 8 and 10. Lectures; reading; map study. *II*; (3). Not given, 1917-18.

Prerequisite: Geology 1, 3, or 35.]

37. Human Geography.—Influence of topography, climate, and other physiographic factors on human life and history. Recitations. *I;* (3). Dr. RICH

Prerequisite: Geology 35, 1, or 3.

[38. **Regional Geology of North America.**—Geologic structure, mineral resources, and surface features of North America, considered as results of its history. Discussions. *II*; (3). Not given, 1917-18.

Prerequisite: Geology 1, 3, or 13b.]

39. Geology of Illinois.—Stratigraphy, structure, geologic history, and resources of the state. *II;* (3). Associate Professor SAVAGE

Prerequisite: Geology 1, 3 or 13b.

19. Field Geology.—Excursion to some important district within 300 miles of Urbana during the Easter recess. The cost of the trip will be about $30.00. Credit on basis of written report. *II*; (1). Members of the department

Prerequisite: Geology 1, 3, 13b, or 35.

19a. **Field Geology.**—Students who have had Geology 19 and wish to visit another locality the following year should register for 19a. The conditions are the same as for 19. *II*; (1). Members of the department

41. **Summer Field Survey.**—Detailed survey and analysis of a small selected district. Professional standards in both work and report will be required. For 1918, the field will probably be in eastern Wyoming. Party limited to ten, approved in advance. (For further details see Summer Session Bulletin.) *Eight weeks in the Summer*; (10). Professor BLACKWELDER

Prerequisite: One year in geology.

Courses for Advanced Undergraduates and Graduates

NOTE.—Junior standing is required for these courses.

6. **Optical Mineralogy.**—Introduction to the microscopic study of minerals, by means of their behavior in polarized light. Two lectures; four hours laboratory. *I*; (3). Professor BAYLEY, Mr. KENNEDY

Prerequisite: Geology 13a or 5.

7. **Petrography.**—Types of rocks; their origin and classification; representative suite of specimens in the hand specimen and thin section. *II*; (3). Professor BAYLEY

Prerequisite: Geology 6.

[15. **Structural Geology.**—Rock deformation and its results. Discussions; laboratory. *II*; (3). Not given, 1917-18.

Prerequisite: Geology 1, 3, or 13b.]

[16. **Stratigraphy.**—The successive geologic formations and the fossil faunas by which they are correlated, with special reference to the United States. *II*; (5). Not given, 1917-18.

Prerequisite: Geology 9 and 17.]

17. **Earth History.**—Physical conditions and events in the geological periods, with special reference to North America; discussions; lectures. *I*; (3). Given in 1917-18 and in alternate years. Professor BLACKWELDER

Prerequisite: One year in geology.

42. **Stratigraphic Paleontology.**—The invertebrate index fossils of the successive geologic formations, from the Cambrian to the Tertiary. *I*, *II*; (3). Associate Professor SAVAGE

Prerequisite: Geology 16 and senior standing.

23. **Physiography of the Lands.**—The making of topographic features as controlled by such factors as climate and rock structure. Physiographic history. Recitations; laboratory; two Saturday field trips. *II*; (3). Dr. RICH

Prerequisite: Geology 35, 1, 3, or 13b.

24. **Physiographic Interpretations.**—Physiographic interpretation of recent earth history. *I*; (3). Given in 1917-18 and alternate years. Dr. RICH

Prerequisite: Geology 23.

31. **Geology of Oil and Gas.**—Origin and relations of the natural hydro-carbons; their distribution in space and in rock sequence. A two-day trip to the main oil fields of Illinois will be required, involving an expense of about $10.00. *II*; (3). Dr TOMLINSON

Prerequisite: One year of geology including Geology 1 or 3 or 13b, and junior standing.

45a-45b. Geological Conference.—All members and advanced students of the department meet to consider results of investigations, reviews of important publications, and special lectures. Credit given only to those advanced students authorized to register for the course. *I, II*; (1). Professor Blackwelder

Prerequisite: An elementary course in geology.

Courses for Graduates

For graduate work in geology the student must have a thoro training in the principles of the science, and must have done advanced work in at least one of its branches. Except in unusual cases, which will be decided on their merits, at least 20 hours of geology and two or more weeks of field experience will be required. Graduate students with adequate technical preparation in other sciences may be admitted to graduate courses in certain subjects, such as crystallography.

[**101. Advanced Crystallography.**—Measuring, projecting, and calculating crystal forms, and determining the physical properties of crystallized bodies. *Twice a week; I, II; (1 unit).* Not given, 1917-18.]

102. Igneous Petrography.—The igneous rocks, identification of types, classification, and relationships. Lectures; laboratory. *Twice a week; I; (1 unit).* Professor Bayley

[**103. Metamorphic Petrography.**—Microscopy of the metamorphic rocks and the interpretation of their origin. *Twice a week; II; (1 unit).* Not given, 1917-18. Professor Bayley]

105. Paleontologic and Stratigraphic Problems.—Fossil invertebrates, by either zoological or faunal groups. *One to three times a week; I, II; (1 unit.)* Associate Professor Savage

[**108. Ore Deposition.**—Problems in the origin of ore deposits, as illustrated by selected mining districts. *I, II; (1 unit).* Not given, 1917-18.]

125. Sedimentation.—The interpretation of sedimentary rocks in terms of their origin. *Twice a week; I, II; (1 unit).* Given in 1917-18 and alternate years. Professor Blackwelder

135. Research.—Individual work under the supervision of members of the staff in their respective fields. *Once a week; I, II.* Professor Blackwelder, Professor Bayley, Associate Professor Savage, Dr. Rich, and Dr. Tomlinson.

136. Seminar in Physical Geology.—Special problems in mineralogy, petrography, economic geology, metamorphism, and related subjects. *Once a week; I, II; (1 unit).* Professor Bayley

[**137. Seminar in Historical Geology.**—Special problems in historical geology, paleontology, correlation, and allied subjects. *Once a week; I, II; (1 unit).* Not given, 1917-18.]

138. Physiographic Problems.—Advanced problems; research methods. *Once a week; I, II; (1 unit).* Dr. Rich

Summer Session Courses

S 41. Field Geology.—A field course in the Rocky Mountains in Eastern Wyoming. Party limited to eight. Eight weeks. (10). Credit on basis of written report only. Professor Blackwelder

Prerequisite: One year of geology in college.

S 135. Research in Field.—Elaboration of a field problem in the mountains of Wyoming. Eight weeks. *(2 units).* Professor Blackwelder

GERMANIC LANGUAGES AND LITERATURE

(Including Scandinavian)

Julius Goebel, Ph.D., *Professor*
Otto Eduard Lessing, Ph.D., *Professor*
George Tobias Flom, Ph.D., *Associate Professor, Scandinavian*
Neil Conwell Brooks, Ph.D., *Assistant Professor*
Leonard Bloomfield, Ph.D., *Assistant Professor, Comparative Philology and German*
Charles Allyn Williams, Ph.D., *Associate*
Daisy Luana Blaisdell, A.M., *Instructor*
Armin Hajman Koller, Ph.D., *Instructor*
Heinrich Waldemar Nordmeyer, Ph.D., *Instructor*
Oscar Friedrich Wilhelm Fernsemer,[1] Ph.D., *Instructor*
Maximilian Josef Rudwin, Ph.D., *Instructor*
Bernhard Alexander Uhlendorf, A.M., *Assistant*
George Oliver Curme, Litt.D., *Professor of Germanic Philology in Northwestern University (Summer Session)*

German

Major: 20 hours in German, excluding German 1, 2, and 3, and including at least 6 hours of primarily fourth-year courses.

Minors: 20 hours in not more than two subjects chosen from the following list: languages, education, history, philosophy, and psychology, provided that 8 hours must be selected from a language other than German.

Germanic Languages

Major: 20 hours in German and the Scandinavian languages, provided that at least 8 hours must be in German and 8 hours in one Scandinavian language. Only German courses above the second year, and Scandinavian courses exclusive of Scandinavian 6 and 12 will be acceptable.

Minors: 20 hours is not more than two subjects chosen from the following list: languages, education, history, philosophy, and psychology.

A. GERMAN

First-Year Courses

1. Elementary Course.—Grammar and easy reading for beginners. (Two sections are offered in the second semester for students who enter the University in the second semester.) *I* or *II*; (4). Assistant Professor Brooks, Assistant Professor Bloomfield, Miss Blaisdell, Dr. Koller, Dr. Nordmeyer, Dr. Fernsemer, Mr. Uhlendorf

2. Narrative Prose—Grammar and reading. *I;* (4).
Dr. Williams, Dr. Koller, Mr. Uhlendorf

Prerequisite: One year of high-school German or German S 1, or German 1 taken in the second semester, or equivalent.

Note.—Students who have had no German for one year or more will be required to take a written test before entering German 2. This will be regarded as a *test of present ability in German* and not as an examination of any particular course previously taken in this subject.

3. Narrative Prose.—(Continuation of German 1.) Reading and grammar. *II*; (4). Assistant Professor Brooks, Assistant Professor Bloomfield, Miss Blaisdell, Dr. Koller, Dr. Nordmeyer, Mr. Uhlendorf

Prerequisite: German 1, or equivalent demonstrated by examination.

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[1] Resigned.

Second-Year Courses

4. Prose Reading.—Selections from standard prose writers; sight reading; composition. *I* or *II*; (4). Assistant Professor BLOOMFIELD, Miss BLAISDELL, Dr. KOLLER, Dr. NORDMEYER, Dr. FERNSEMER, Dr. RUDWIN, Mr. UHLENDORF

Prerequisite: German 2 or 3, or two years of high-school German, or equivalent demonstrated by examination.

5. Narrative and Historical Prose.—At the option of the instructor one classic in verse may also be read. Composition. *I* or *II*; (4). Dr. WILLIAMS, Miss BLAISDELL, Dr. KOLLER, Dr. NORDMEYER, Dr. RUDWIN, Dr. FERNSEMER

Prerequisite: German 4, or three years of high-school German, or equivalent demonstrated by examination.

6. Scientific Prose.—The rapid reading of works of a general scientific character. (Parallel with 5. Students may not take both 5 and 6 for more than a total of four hours' credit without special permission of department.) *II*; (4).

Dr. NORDMEYER, Dr. RUDWIN, Mr. UHLENDORF

Prerequisite: German 4, or three years of high-school German, or equivalent demonstrated by examination.

Third-Year Courses

7. Modern Fiction.—(Intended primarily for students who take course 5 in the first semester. Not open to those who have had any course more advanced than 5.) *II*; (3). Dr. WILLIAMS, Dr. NORDMEYER

Prerequisite: German 5, or equivalent.

10. Introductory Goethe Course.—Reading of works illustrating different periods in Goethe's development: *Goetz von Berlichingen; Egmont; Iphigenie auf Tauris;* selections from *Dichtung und Wahrheit. II;* (3).

Assistant Professor BROOKS

Prerequisite: German 14, or 16, or 24, or 28a, or equivalent.

14. Introductory Schiller Course.—Works illustrating different periods in Schiller's development: Lyrics and Ballads; *Kabale und Liebe; Braut von Messina. I;* (3). Assistant Professor BROOKS

Prerequisite: German 5, or equivalent.

16. Elementary Composition and Conversation.—*I* or *II*; (2).

Assistant Professor BLOOMFIELD, Dr. RUDWIN, Mr. UHLENDORF

Prerequisite: German 5, or equivalent.

17. Intermediate Composition and Conversation.—*I* or *II*; (3).

Miss BLAISDELL, Dr. RUDWIN

Prerequisite: German 16, or equivalent.

23. German Novel.—Rapid reading of representative novels, beginning with Goethe's *Werther*. Assigned readings. (More advanced than German 7.) *II;* (3).

Dr. KOLLER

Prerequisite: German 14, or 16, or 24, or 28a, or 7, or equivalent.

24. Modern German Drama.—Rapid reading of dramas by Grillparzer, Hebbel, Hauptmann, and others. *I*; (3). Dr. RUDWIN

Prerequisite: German 5, or equivalent.

28a-28b. German Lyrics and Ballads.—Form, development and various types; the *Volkslied* of the eighteenth and nineteenth centuries and its influence. First semester: the early eighteenth century and the classical period. Second semester: the nineteenth century. (The first semester may be taken separately, but not the second without the first.) *I, II;* (2). Dr. WILLIAMS

Prerequisite: German 5, or equivalent, and sophomore standing.

Primarily Fourth-Year Courses

NOTE.—For a major in German, students are required to take at least six hours of these primarily fourth-year courses; seniors who are preparing to teach German should take German 29.

8. **Schiller.**—The life of Schiller; Wallenstein and other selections. *II*; (3). Professor LESSING

Prerequisite: Three years of college German, or equivalent.

19a-19b. **Goethe's Faust.**—The Faust legend and early Faust books and plays, the genesis of Goethe's Faust; reading of both parts. *I, II*; (2). Professor GOEBEL

Prerequisite: Three years of college German, or equivalent.

25. **Teachers' Course.**—Discussion of methods; examination of text-books. (Open to seniors and special students who have 20 hours' credit in German. May not be taken for credit by graduate students.) *II;* (2). Dr. KOLLER

Prerequisite: Completion of, or registration in Education 1 or equivalent.

26a. **German Literature to the End of the Reformation.**—Lectures; recitations; reports on assigned reading. *I*; (3). Professor LESSING

Prerequisite: German 10, or 24, or 28a-28b, or equivalent.

26b. **German Literature Since the Reformation.**—Lectures; recitations; reports on assigned collateral reading. *II*; (3). Professor LESSING

Prerequisite: German 26a.

27. **Lessing.**—The life of Lessing. His plays and dramatic theory. *I*; (3). Professor LESSING

Prerequisite: Three years of college German, or equivalent.

29a-29b. **Advanced Composition.**—Themes on Germany and German life, based on suitable reading, discussed in German. *I, II*; (3). Dr. NORDMEYER

Prerequisite: German 17, or equivalent, for 29a; 29a for 29b.

30a-30b. **Thesis Course.**—(Intended primarily for candidates for honors in German, but open to other seniors.) *I, II*; (1 or 2).[1] Professor GOEBEL, Professor LESSING, Assistant Professor BROOKS, Assistant Professor BLOOMFIELD

Prerequisite: Senior standing, and three years of college German, or equivalent.

31. **Middle High German.**—*I;* (2). Professor GOEBEL

Prerequisite: Senior or graduate standing; three years of college German, or equivalent.

[32. **History of German Civilization.**—Readings; lectures; discussions. *I*; (3). Not given, 1917-18. Assistant Professor BROOKS]

[39a-39b. **Goethe and Schiller.**—Interpretation of Goethe's poems. Goethe's *Tasso;* Schiller's *Uber naive und sentimentalische Dichtung.* *I, II;* (2). Not given, 1917-18. Professor GOEBEL]

Courses for Graduates

Students desiring to take German as a major should have completed a four years' course of undergraduate study in German, corresponding to the four years' course at this University, and should be familiar with the principal works of the writers of the classical and modern periods of German literature, show a general knowledge of the history of German literature, and be able to follow lectures in the German language.

A reading knowledge of Latin and French is required. It is desirable that candidates for the degree of Doctor of Philosophy have some knowledge of Greek. All students are expected to have had a course in German history.

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[1] In registering for a course with variable credit hours a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., not *2-5* but *2* or *3*, or *4*, or *5*.

101. Seminar in Germanic Philology.—Training in original research; results of special value may be published in the *Journal of English and Germanic Philology.* *Once a week; I, II; (1 unit).* Professor GOEBEL

103. Introduction to the Historical Study of the Germanic Languages.—History of German philology: comparative grammar of the Old Germanic dialects. Lectures; discussions of special topics. *Twice a week; II; (1 unit).* Professor GOEBEL

[**104. Gothic.**—Grammar and literature. *Twice a week*; *I*; (*1 unit*). Not given, 1917-18. Professor GOEBEL]

105. Old High German.—Grammar and interpretation of the oldest literary documents. *Three times a week; II; (1 unit).* Dr. WILLIAMS

[**109. Goethe's and Schiller's Philosophy.**—*Twice a week; I, II*; (*1 unit*). Not given, 1917-18. Professor GOEBEL]

110. Early German Drama.—German drama to the time of the Reformation; medieval religious drama; Shrovetide plays; beginning of the humanistic drama. *Twice a week; I; (1 unit).* Assistant Professor BROOKS

113. German Literature of the Fifteenth and Sixteenth Centuries.—Survey of the literature on the background of the general history of the time; Luther and the Reformation; Mastersingers and folksongs; the Reformation drama; Hans Sachs; Brant; Fischart; the chap books; the English comedians. *Twice a week; II; (1 unit).* Assistant Professor BROOKS

115. History of German Literature of the Nineteenth Century.—*Twice a week; I, II; (1 unit).* Professor LESSING

[**116. Medieval German Literature with Reference to Political, Religious, and Social History.**—Research. *Twice a week; I*; (*1 unit*). Not given, 1917-18.]

117. History of the German Literature During the Eighteenth Century.—*Twice a week; I, II; (1 unit).* Professor GOEBEL

[**118. The German Drama Since Schiller.**—Research. *Twice a week; I, II*; (*1 unit*). Not given, 1917-18. Professor LESSING]

119. The German Novel.—Research. *Twice a week; I, II*; (*1 unit*). Professor LESSING

[**121. Walther von der Vogelweide.**—Lectures and interpretations. *Twice a week; II; (1 unit*). Not given, 1917-18. Professor GOEBEL]

121a. The Nibelungenlied.—Lectures and interpretations. *Twice a week; II; (1 unit).* Professor GOEBEL

[**121b. Gudrum.**—Lectures and interpretations. *Twice a week; II*; (*1 unit*). Not given, 1917-18. Professor GOEBEL]

B. SCANDINAVIAN

Undergraduate Courses not open to Freshmen

1a-1b. Elementary Norwegian.—Grammar; conversation; reading from Björnson, Lie, and Ibsen. *I*; (3): *II*; (2). Associate Professor FLOM

2a-2b. Elementary Swedish.—Grammar; pronunciation; composition; easy reading. *I, II*; (2). Associate Professor FLOM

[**3a-3b. Intermediate Norwegian.**—First semester. Ibsen's *Brand* and *Peer Gynt.* Second semester: Björnson's *En Fallit* and selections from recent writers. *I, II;* (2). Not given, 1917-18.]

6. Henrik Ibsen.—Lectures; interpretation of three of the social dramas; Ibsen's technic. Archer's translation is used. *II*; (2). Associate Professor FLOM

Prerequisite: Junior standing.

8. History of Norwegian and Danish Literature.—Class readings and discussion of selections from the chief writers from Holberg to Ibsen. Open to those who have some knowledge of either language. *II;* (2). Associate Professor FLOM

12. Norse Mythology.—Outline of West European religion during the last centuries of paganism; the myths, beliefs, and religious cult of the Norsemen to the close of the Viking Age. *I*; (2). Associate Professor FLOM

Prerequisite: Junior standing.

14. History of Old Norse Literature.—Lectures. Mythical and heroic lays; court poetry; sagas; ballads. *II*; (2). Associate Professor FLOM

Prerequisite: Senior standing.

Courses for Graduates

Preparation for graduate work in the Scandinavian languages or literature must include a reading knowledge of one of the Scandinavian languages and systematic work in the undergraduate courses in Scandinavian or their equivalent. Any graduate student in language may, however, be admitted to the purely philological courses. Course 14 may be taken for graduate credit.

101. Old Norse.—Introduction to the language as a member of the Germanic group. Reading of the *Volsunga Saga* and selections from the Icelandic Sagas. *I, II; (1 unit).* Associate Professor FLOM

110. Advanced Old Norse.—The mythical lays of the *Elder Edda;* selections from the *Speculum Regale* (*Konungs Skuggsjá*). *II; (1 unit).* Associate Professor FLOM

Prerequisite: Scandinavian 101 or the equivalent.

Summer Session Courses

S 1. Beginners' Course.—(4). Dr. KOLLER

S 3. Intermediate Course.—Narrative prose. (3). Dr. FERNSEMER

Prerequisite: German 1 or S1.

S 4. Prose Reading.—Narrative prose; sight reading; composition. (3). Dr. NORDMEYER

Prerequisite: German 3.

S 16. Composition and Conversation.—(2). Dr. FERNSEMER, Dr. NORDMEYER

Prerequisite: Two years of university German or an equivalent.

S 24. Modern Drama.—(2). Professor CURME

Prerequisite: German 5 or two years of university German.

S 25. Teachers' Course.—Place, aim, and scope of the study of German in the high school; methods; difficulties. Observation work in the beginners' course. (1). Dr. KOLLER

Prerequisite: Three years of university German or an equivalent.

S 11. History of German Literature to the End of the Reformation.—Lectures; recitations; reports on assigned reading. (2). Dr. NORDMEYER

Prerequisite: Three years of university German or an equivalent.

S 14. Elementary Middle High German.—Introduction to the German language and literature of the Middle Ages. (1½). Professor CURME

Prerequisite: Three years of university German or equivalent.

S 19a. Goethe's Faust.—(2). Dr. FERNSEMER

Prerequisite: Three years of university German or an equivalent.

S 125. History of the German Language.—(*1 unit*). Professor CURME

GREEK

(See Classics.)

HEBREW

(See Oriental Languages and Literature.)

HISTOLOGY

(See Physiology.)

HISTORY

Evarts Boutell Greene,[1] Ph.D., *Professor*
Clarence Walworth Alvord, Ph.D., *Professor*
Laurence Marcellus Larson, Ph.D., *Professor*
Albert Howe Lybyer, Ph.D., *Professor*
Albert Ten Eyck Olmstead, Ph.D., *Professor*
William Spence Robertson, Ph.D., *Assistant Professor*
Arthur Charles Cole, Ph.D., *Assistant Professor*
Paul Van Brunt Jones, Ph.D., *Associate*
Theodore Calvin Pease,[2] Ph.D., *Associate*
J Earll Miller, LL.B., Ph.D., *Instructor*
Elizabeth Parnham Brush, A.M., *Assistant*.
Byne Frances Goodman, A.M., *Assistant*
Cooperating:
William Abbott Oldfather, Ph.D., *Professor, Greek*
Howard Vernon Canter, Ph.D., *Associate Professor, Latin*
Ernest Ludlow Bogart, Ph.D. *Professor, Economics*
Charles Manfred Thompson, Ph.D., *Associate Professor, Economics*
Paul Crissler Phillips, Ph.D., *Professor of History, University of Montana* (*Summer Session*)

Major: 20 hours, excluding History 1a and 2a, and including (a) either History 1b or 2b; (b) six hours selected from courses for advanced undergraduates and graduates; and (c) any other courses offered in the department.

Minors: 20 hours, including (a) either Economics 1 or Political Science 1 and 3; and (b) one or two of the following subjects: economics, political science, law, sociology, the history of any literature, history of education, philosophy, and physiography. Courses in any foreign language may be accepted in satisfaction of this requirement, if the student can show his ability to read ordinary historical prose in that language.

Courses for Undergraduates

1a-1b. Continental European History.—Europe from the fourth century to the present time. (Either semester may be taken separately.) *I, II*; (4 or 3).[3]

Note.—3 credits only for seniors.

Professor Lybyer, Dr. Jones, Dr. Miller, Miss Brush

2a-2b. English History.—First semester; political history of England to 1603; the larger social, economic, and religious movements. Second semester: the modern history of England; colonial and imperial development. *I, II*; (3 or 2).[4]

Professor Larson, Dr. Miller, Miss Brush

Note.—Two credits only for seniors.

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[1] On leave of absence, second semester.
[2] On leave for military service.
[3] Three credits for seniors; four credits for students other than seniors.
[4] Two credits for seniors; three credits for students other than seniors.

3a-3b. **History of the United States.**—First semester: the colonies in 1750; the French War and the Revolution; the genesis of the Federal Constitution; development under the Constitution to 1815. Second semester: a century of national development, 1815-1917. (Either semester may be taken separately.) *I, II*; (3). Professor GREENE, Assistant Professor ROBERTSON, Assistant Professor COLE, Miss GOODMAN

Prerequisite: One year of college work.

5.[1] **History of Greece.**—*I*; (3). (See Greek 20.) Professor OLDFATHER

Prerequisite: One college course in history or the classics; sophomore standing.

6.[1] **History of Rome.**—*II*; (3). (See Latin 19.) Associate Professor CANTER

Prerequisite: One college course in history or the classics; sophomore standing.

8a-8b. **Western Europe in the Middle Ages.**—First semester: from Constantine to Charlemagne. Second semester: from Charlemagne to Dante. *I, II*; (3). Dr. JONES

Prerequisite: One year of college work. Not open to students who have had 1a.

17. **History of Illinois.**—Political, economic, and social development of a typical commonwealth in the Middle West, considered in its relation to the general course of American history. *II*; (2). Professor ALVORD, Professor BOGART, Associate Professor THOMPSON, Assistant Pofessor COLE

Prerequisite: Sophomore standing in any college of the University.

18. **The Teaching of History.**—Preparation of students for the teaching of history in secondary schools. *I*; (2). Assistant Professor COLE

Prerequisite: History 1a-1b, 3a-3b, or their equivalent; senior standing.

28a-28b. **Thesis.**—Special training in investigation for candidates for honors and for other seniors. *I, II*; (2). Assistant Professor ROBERTSON

41. **England and Germany, 1875-1918.**—The imperialistic ambitions of the European powers; the scramble for Africa; English, German, and Italian ambitions in the Near East; the problem of the Balkans; the new situation in the Far East; the formation of the Triple Alliance and the Triple Entente; the Internationale, etc. (Cannot be counted toward a major in history. Not open to Freshmen.) *II*; (2). Members of the department

50.[1] **The Ancient Near East.**—Political and social history of Egypt, Babylonia, Assyria, Palestine, and the Hittites, to the rise of Persia. Background to Biblical and classical history. *I*; (3). Professor OLMSTEAD

Prerequisite: Sophomore standing.

51. **Hebrew History.**—The Hebrew people to the revolt under Hadrian; source problems, as they relate to Biblical criticism. Biblical history and the general history of the times. *II*; (3). Professor OLMSTEAD

Prerequisite: Junior standing.

Courses for Advanced Undergraduates and Graduates

(Open to seniors and to juniors of high standing. The ability to use French and German is desirable.)

4a-4b. **The Constitutional History of England.**—First semester: institutional origins. Second semester: modern constitutional practise. (Important for students specializing in history, political science, or law.) *I, II*; (3). Professor LARSON

Prerequisite: One year of college history.

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[1] Course 50, together with courses 5 and 6, furnishes a general survey of the ancient history of the Mediterranean world.

[9a-9b. **The Renaissance and the Reformation.**—The transition from medieval to modern ideals. *I, II*; (3). Not given, 1917-18.

Prerequisite: History 1a-1b.]

[11. **Special Topics in Ancient History.**—Methods of research in Greek and Roman history. The decline of ancient civilization. *II*; (3). Not given, 1917-18.]

15. **The Civil War and the Reconstruction.**—The ante-bellum South and its destruction, 1844-1870. The civil war in the light of the forces which tended to hasten or obstruct the clash of arms. *II*; (3). Assistant Professor COLE

Prerequisite: History 3a-3b.

16a-16b. **The History of the Exploration and Colonization of the West.**—First semester: the Mississippi Valley from the earliest European explorations to the close of the war of 1812. Second semester: the Mississippi Valley since 1815, and the progress of western expansion to the Pacific. (Either semester may be taken separately.) *I, II;* (2). Professor ALVORD

Prerequisite: History 3a-3b.

[19. **France in the Feudal and Later Middle Ages.**—(A reading knowledge of French is desirable.) *II;* (3). Not given, 1917-18. Dr. JONES

Prerequisite: History 1a-1b.]

21. **The Recent History of the United States.**—Historical introduction to contemporary American politics. *I;* (3). Assistant Professor ROBERTSON

Prerequisite: History 3b.

[23. **England in the Seventeenth Century with Special Reference to the Puritan Revolution.**—The influence of Puritanism on the institutions and ideals of modern England and America. *II;* (2). Not given, 1917-18.

Prerequisite: History 1a-1b or 2a-2b.]

24. **European Consolidation and Colonial Expansion, 1648-1789.**—*I;* (3). Professor LYBYER

Prerequisite: One year of college history, economics, or political science.

25. **The French Revolution, Napoleon, and the European Reaction, 1789-1848,**—*II;* (3). Professor LYBYER

Prerequisite: One year of college history, economics, or political science.

26. **History of the Latin-American Colonies.**—Political, economic, social, and intellectual life of Spain during the period of discovery: exploration, settlement, and civilization of Spanish America and the Philippines. *I;* (3). Assistant Professor ROBERTSON

Prerequisite: History 1a-1b or 3a-3b.

27. **History of Latin-America from the War of Independence to the Present Time.**—The leading Latin-American states; political parties; existing governments; relations with Europe and the Unites States. The old régime in Texas, Mexico, and California. *II;* (3). Assistant Professor ROBERTSON

Prerequisite: History 3a-3b.

[29. **The Far East.**—The contact of Western nations with the Far East from the sixteenth century to the present time. *II;* (2). Not given, 1917 18.

Prerequisite: One year of college history, economics, or political science, and senior standing.]

31a-31b. **The Mohammedan World.**—First semester: Mohammed, the Saracen Empire, and the Moslem civilization, before the crusades. Second semester: the history and culture, since the first crusade, of the Mohammedan peoples in Europe, Africa, and Asia, except the Ottoman Turks. *I, II;* (2). Professor LYBYER

Prerequisite: One year of college history, economics, or political science, and senior standing.

40. **The Beginnings of the British Empire.**—Conditions that led to English expansion: the empire; imperial institutions. *I;* (2). Professor LARSON

52. **East and West in Ancient Times.**—(Continuation of History 50.) Persia, Parthia, and the Sassanids, to the Moslem conquest: the Eastern Question; interrelation of East and West. *II;* (3). Professor OLMSTEAD

Prerequisite: Junior standing, including History 5, 6, or 50.

53. **Assyrian History.**—The Assyrian Empire; sources; political thought; government of dependencies; parallels to more modern imperial states; economic life. *I;* (3). Professor OLMSTEAD

Prerequisite: Senior standing and the consent of the instructor.

Courses for Graduates

Graduate work in history presupposes two years of college work in this subject, or sixteen semester hours, which should include courses in European and American history corresponding roughly to History 1a-1b and 3a-3b in this University. Linguistic preparation, especially in French and German, is important. For medieval history some knowledge of Latin is essential, and Spanish is useful for certain fields of American history.

Advanced courses in history at the University are of three kinds:

(1) For information and guidance in general reading. (2) Instruction in methodology, historiography, and bibliography. A part of this work (in course 103) is required of all graduate students in history during their first year. (3) Seminar courses for the study of special fields with a view to training in the methods of historical criticism and research.

Illinois Historical Survey.—Students have an opportunity to pursue research in western history in connection with the Illinois Historical Survey, an organization for the purpose of carrying on systematic studies in the history of Illinois.

Attention is also called to the fact that the University has for some time cooperated with the Trustees of the State Historical Library, in the gathering and editing of archive material. As a result instructors and graduate students in the department have contributed from time to time to the publications of the Library, and have been given useful training in the study of manuscript as well as printed material.

The History Club, consisting of graduate students in the department, which meets twice a month, gives an opportunity for informal discussion of topics in history.

101. **Seminar in American History.**—Bibliography; solution of typical problems chosen this year with special reference to the international relations of the United States; reports on investigations. *I, II;* (*1 to 2 units*).

In connection with this course, direction in research is offered as follows:

A. American history before 1815	Professor GREENE
B. American history since 1815	Assistant Professor ROBERTSON, Assistant Professor COLE
C. The history of the West	Professor ALVORD, Dr. PEASE
D. American church history	Professor GREENE
E. Latin-American history	Assistant Professor ROBERTSON

102. **Studies in English History.**—Church and state in the medieval and early modern period; examination of documentary material. *Twice a week; I, II;* (*1 unit*). Professor LARSON

103. Historiography and Historical Method.—The technic of historical investigation. Required of all candidates for an advanced degree in history who do not present evidence of similar training elsewhere. *Twice a week; I; (½ unit).*

Assistant Professor COLE

104. Seminar in English and Continental European History.—Expansion of Europe: bibliography, historiography, and selected problems: reports on researches. *I, II; (1 to 2 units).*

In connection with this course, direction in research is offered as follows:

A. Medieval history	Professor LARSON
B. Modern history of Continental Europe	Professor LYBYER
C. English history	Professor LARSON
D. Renaissance and Reformation	Dr. JONES
E. Asiastic Relations	Professor GREENE, Professor LYBYER

105. Studies in the History of the West.—Subject for 1917-18: The French Colonization of the Mississippi Valley. *Once a week; I, II; (1 unit).*

Professor ALVORD

111. Spanish-American Relations.—The relations of the Latin-American States with Europe and the United States. The Monroe Doctrine, the development of international trade, etc. *Once a week; I, II; (½ to 1 unit).*

Assistant Professor ROBERTSON

[**112. Studies in American Religious History.**—Questions of Church and State. *Twice a week; II; (1 unit).* Not given, 1917-18.]

114. Studies in American Constitutional History.—Colonial institutions on the eve of the Revolution; transition from provincial to republican governments; genesis of the Federal Constitution; selected topics in the development of the Constitution since 1789. *I, II; (1 unit).* Assistant Professor ROBERTSON

150. Research in Ancient Oriental History.—*I, II; (1 unit).*

Professor OLMSTEAD

Summer Session Courses

S 1c. European History, 1648-1917.—Europe since the Thirty Years' War. (3). Professor LYBYER

S 3a. American History, 1606-1783.—The colonial era and the American Revolution. (2½). Professor PHILLIPS

Prerequisite: One year of college work or its equivalent.

S 21. The History of the United States Since the Reconstruction.—Historical introduction to contemporary politics: influence of the far west. (2½).

Professor PHILLIPS

Prerequisite: One college course in American history or its equivalent.

S 30b. The Ottoman Empire and the Near East Since 1683.—The Balkan and Near Eastern problems since 1908. (2). Professor LYBYER

Prerequisite: One college course in European history or its equivalent.

S 41. The United States and the Great War.—(1).

Members of the department and others

S 101. Seminar in American History.—Discussion of selected problems and guidance in the investigation of special topics. Credit to be arranged.

Professor PHILLIPS and others

S 104. Seminar in European History.—Conferences with graduate students who desire guidance in research, with one joint meeting each week for studies in method and critical problems. Credit to be arranged. Professor LYBYER

HORTICULTURE

Joseph Cullen Blair, M.S., *Professor, Horticulture*
John William Lloyd, Ph.D., *Professor, Olericulture*
Charles Spencer Crandall, M.S., *Professor, Pomology*
Charles Mulford Robinson,[1] A.M., *Professor, Civic Design*
Herman Bernard Dorner, M.S., *Assistant Professor, Floriculture*
Bethel Stewart Pickett, M.S., *Assistant Professor, Pomology*
Ralph Rodney Root, M.L.A., *Assistant Professor, Landscape Gardening*
Ernest Winfield Bailey, M.S., *Assistant Professor, Pomology*
Charles Elmer Durst, M.S., *Assistant Professor, Olericulture*
Frederick Noble Evans, M.L.A., *Assistant Professor, Landscape Gardening*
Warren Albert Ruth, A.M., *Associate, Horticultural Chemistry*
Simeon James Bole, A.M., *Associate, Pomology*
Harry Warren Anderson, Ph.D., *Associate, Pomology*
Philip Augustus Lehenbauer, Ph.D., *Associate, Plant Physiology*
Duane Taylor Englis, Ph.D., *Associate, Floricultural Chemistry*
Alfred Joseph Gunderson, B.S., *Associate, Pomology*
Tell William Nicolet,[2] M.L.A., *Associate, Landscape Gardening*
William Sanford Brock, A.B., B.S., *Instructor, Pomology*
Arthur Samuel Colby, M.S., *Instructor, Pomology*
Howard Dexter Brown, B.S., *Instructor, Olericulture*
Chauncey Stevens Hill, B.S., *Instructor, Landscape Gardening*
Edward George Lauterbach, B.S., *Assistant, Floriculture*
Harry Warren Day, B.S., *Assistant, Olericulture*
Stanley William Hall, B.S., *Assistant, Floriculture*
James Hutchinson, *Assistant, Floriculture*
Walter Pavy James, B.S., *Assistant, Pomology*

1a. **Elements of Horticulture.**—Fruit growing, vegetable gardening, and ornamental planting, with special reference to the farm home. (Required of all freshmen in the General Curriculum in Agriculture.) Recitations; practical exercises. *I;* (2). Assistant Professor Pickett, Mr. Ruth, Mr. Gunderson, Mr. Brock, Mr. Colby

1b. **Elements of Horticulture.**—(Continuation of 1a. Required of all freshmen in the General Curriculum in Agriculture.) *II;* (2). Professor Lloyd, Assistant Professor Pickett, Assistant Professor Durst, Mr. Ruth, Mr. Gunderson, Mr. Brock, Mr. Colby, Mr. Brown, Mr. Day

2. **Small Fruits and Grapes.**—History: extent of cultivation: soil; location; fertilizers, propagation: planting: tillage; pruning; insect enemies; diseases; varieties: harvesting; marketing. Lectures: reference readings: laboratory. *II;* (3). Mr. Bole

Prerequisite: Horticulture 1a.

3. **Vegetable Gardening.**—Commercial production; survey of trucking sections; earliness, fertilizing, insects, diseases; irrigation; equipment; labor and management; marketing. Lectures: reference readings; practical experience in the greenhouse and department gardens. *II;* (5). Assistant Professor Durst, Mr. Brown

Prerequisite: Horticulture 1a and 1b or their equivalents.

4. **Plant Houses.**—Construction, cost, and maintenance; heating; ventilating. *II*; (4). Assistant Professor Dorner

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[1] Deceased, December 30, 1917.
[2] Resigned.

5. **Plant Propagation.**—Grafts; buds; layers; cuttings; seeds. Lectures; laboratory; quizzes. *I*; (5). Assistant Professor DORNER, Mr. LAUTERBACH

6. **Nursery Methods.**—The nursery business; propagation; management; relation to horticulture. Lectures; reference readings. (Trips will be taken to nurseries, the cost not to exceed $10.) *II*; (2). Assistant Professor BAILEY

Prerequisite: Horticulture 5.

7. **Spraying**—Materials, appliances, and methods of combating insects and fungous diseases. Lectures; reference readings; laboratory; field work. *II*; (3). Mr. RUTH, Mr. BROCK

Prerequisite: Horticulture 1a and 1b or their equivalents; Chemistry 1; Entomology 4.

[9. **Forestry.**—Forest trees; uses; distribution; artificial production; relations of forest and climate; forestry legislation and economy. *II*; (2). Not given, 1917-18.

Prerequisite: Botany 1, or its equivalent.]

10a. **Rural Improvement.**—Landscape gardening in the open country and its relation to rural conditions and the farm group. Lectures; reference readings; reports. *I*; (2). Assistant Professor ROOT

10b. **Town Improvement.**—Development of the town as an organism; improvement of small communities, home grounds. Lectures; reference readings; reports; occasional field trips. *II*; (2). Assistant Professor EVANS

11. **Study of Cultivated Plants.**—Economic and ornamental plants of the temperate zone; identification of species; examination of living plants and herbarium specimens. Lectures; assigned readings. *I*; (2). Professor BLAIR, Professor CRANDALL

Prerequisite: Botany 4a.

15a. **Principles of Plant Growing.**—Preparation of soils for greenhouse crops; fertilizers; potting and shifting plants; watering. Lectures; practical greenhouse work. *II*; (5). Assistant Professor DORNER, Mr. HALL

Prerequisite: Horticulture 5; Botany 1.

15b. **Commercial Crops.**—Greenhouse plants and cut flowers for wholesale and retail markets; care and marketing. Lectures; greenhouse work. *I*; (5). Mr. HALL

Prerequisite: Horticulture 15a.

19. **Amateur Floriculture.**—Window gardening; flowers on the home grounds; containers; potting soils; fertilizers; flower beds; plants for window and garden. *I*; (3). Mr. LAUTERBACH

21a. **Landscape Design (Sophomore Course).**—Composition; drafting and presentation in office practise. *I*; (4). Mr. NICOLET

Prerequisite: Architecture 32.

21b. **Landscape Design (Sophomore Course).**—Small private estates and gardens in city and suburban developments. *II*; (4). Mr. HILL

Prerequisite: Horticulture 21a.

23a-23b. **Landscape Design (Junior Course).**—Design of country estates, playgrounds, golf courses, and parks. Drafting; field trips; assigned readings; reports; occasional lectures. *I*, *II*; (4). Assistant Professor ROOT

Prerequisite: Horticulture 21b.

24a. **Trees and Shrubs.**—Identification and characteristics of hardy plant material used in landscape gardening. Lectures; reference readings; field trips. *II*; (3). Assistant Professor ROOT, Mr. HILL

Prerequisite: Botany 1.

24b. Trees and Shrubs.—(Continuation of Horticulture 24a.) Lectures; reference readings; field trips. *I*; (3). Assistant Professor ROOT, Mr. NICOLET

Prerequisite: Horticulture 24a.

25a-25b. Advanced Landscape Design (Senior Course).—Drafting; field trips; assigned readings; reports; occasional lectures; 15 hours' drafting a week. *I, II*; (5). Assistant Professor EVANS

Prerequisite: Horticulture 23b.

26a. Planting Design (First Course).—The planting of private estates and gardens; problems. Planting; readings; field trips; specifications; reports. Six hours' drafting; one lecture. *II*; (3). Assistant Professor EVANS

Prerequisite: Horticulture 23a, 24b.

26b. Planting Design (Second Course).—The planting of public properties, parks, golf courses, cemeteries. Problems. Six hours' drafting; one lecture; conferences. *I*; (3). Assistant Professor EVANS

Prerequisite: Horticulture 26a.

27a-27b. Landscape Construction.—Construction drawings, grading plans, working drawings, specifications, reports. *I, II*; (3). Mr. NICOLET, Mr. HILL

Prerequisite: Civil Engineering 32.

28. Exotics.—Decorative plants used in landscape gardening. Lectures; planting plans; field trips. *II*; (1). Assistant Professor EVANS

Prerequisite: Horticulture 23b, 24b.

29a. Garden Design.—The garden in its relation to the house; harmony, utilization, topographic conditions; planting for architectual or horticultural emphasis. Eight hours' drafting; one lecture. *I*; (3). Assistant Professor EVANS

Prerequisite: Architecture 32.

29b. Garden Design.—Period gardens and their relation to garden design. Eight hours' drafting; one lecture. *II*; (3). Assistant Professor ROOT

Prerequisite: Horticulture 23a or Architecture 33.

30. Decorative and Bedding Plants.—Tropical and sub-tropical plants used in decorative work in the conservatory; tender plants used in out-door beddings. Lectures; practical greenhouse work. *II*; (5). Mr. HALL

Prerequisite: Horticulture 15a.

31. Garden Flowers.—Annuals, herbaceous perennials, bulbs, and shrubs for cut flowers and ornamental plantings. *II*; (3). Assistant Professor DORNER

Prerequisite: Horticulture 5; Botany 1.

32a. Floral Decoration.—Cut flowers and plants in decorative work; arrangement of flowers in baskets, designs, and bouquets; table decoration; house decoration. (For floricultural students.) *I*; (3). Assistant Professor DORNER

32b. Floral Decoration.—(Continuation of Horticulture 32a.) *II*; (3). Assistant Professor DORNER

Prerequisite: Horticulture 32a.

33. Systematic Pomology.—Native and sub-tropical fruits; identification; relationships and classifications of varieties. Judging and displaying fruits. (For students specializing in pomology.) *I*; (2). Assistant Professor BAILEY

Prerequisite: Junior standing.

34. Vegetables under Glass.—Greenhouses for forcing; soils; fertilizers; insects and diseases; management problems; marketing; forcing crops. Lectures; reference readings; practical laboratory work. *I*; (3). Assistant Professor DURST, Mr. BROWN

Prerequisite: Horticulture 3.

35. Private Conservatory Work.—Types of plants for large conservatories; arrangement; care. *II*; (3). Assistant Professor Dorner

Prerequisite: Horticulture 15a, 4.

36. History of Landscape Gardening.—Lectures; reference readings; library sketches; reports. *II*; (2). Assistant Professor Root

37a. Civic Design.—Town remodeling; remedial problems in town planning. Lectures; field trips; reference readings; reports; drafting. *I*; (3). Professor Robinson

Prerequisite: Horticulture 41 or Political Science 4 or 34.

37b. Civic Design.—Town extension; preventive and preservative aspects of town planning. Lectures; reference readings: drafting; textbook. *II*; (3). Assistant Professor Evans

Prerequisite: Horticulture 37a.

38a. Office Practise in Landscape Gardening.—Actual practise in the carrying out of landscape plans in the field. Lectures; office work; reports. *I*; (2). Assistant Professor Root

Prerequisite: Horticulture 27b, 23b.

38b. Office Practise in Landscape Gardening.—Legislation authorizing and promoting the ends of city planning. Contracts and specifications. Lectures; reference readings; textbook. *II*; (2). Assistant Professor Root

Prerequisite: Horticulture 37a and 38a.

39a-39b. Special Lectures.—Lectures by members of the faculty and invited lecturers, on the working out of problems in landscape gardening. (Certain inspection trips required; expense about $2. Professional students are required to register in this course each semester of each year.) One lecture a week with written reports. *I, II*; (1). Assistant Professor Root, Assistant Professor Evans, Mr. Nicolet

Prerequisite: Permission of the instructor in charge.

40a. Trees and Shrubs (Advanced Course).—Use of plant material in landscape gardening; pencil and wash drawing. Assigned readings; drafting. *I*; (3). Assistant Professor Evans

Prerequisite: Horticulture 10a; Architecture 32.

40b. Trees and Shrubs (Advanced Course).—Landscape forestry as applied to private estates, parks, and city planting. *II*; (3). Assistant Professor Root

Prerequisite: Horticulture 24b.

41. Civic Design (Elementary Course).—Lectures; reference readings; reports. *II*; (1). Assistant Professor Evans

Prerequisite: Horticulture 23a.

42. Landscape Design (Elementary Course for Non-professional Students).—Planning and planting home grounds. Lectures; reference readings; reports, six hours' drafting a week. *II*; (3). Assistant Professor Evans, Mr. Hill

Courses for Advanced Undergraduates and Graduates

8. Orcharding.—Pomaceous, drupaceous, and nut fruits; management of large commercial orchards; harvesting; grading; packing; storing; marketing. *I*; (5). Assistant Professor Bailey

Prerequisite: Junior standing.

12. Evolution of Horticultural Plants.—History, classification, and distribution of cultivated plants; modification under culture; variation; food supply, climate, cross-fertilization. *I*; (3). Professor Crandall

Prerequisite: Two years of university work; Horticulture 8 and Botany 4a.

17. **Commercial Orcharding.**—(Continuation of Horticulture 8.) Production and business methods in large orchards; reference readings; seminar. (A limited number of trips will be taken, cost not to exceed $10. For students specializing in pomology.) *II*; (5). Assistant Professor BAILEY

Prerequisite: Horticulture 8 or its equivalent.

18. **Experimental Horticulture.**—Methods and difficulties; planning experiments; recording and interpreting results. (For advanced students preparing for experiment station work.) *II*; (5).

Professor BLAIR, Assistant Professor PICKETT

Prerequisite: Twenty hours' work in horticulture.

22a-22b. **Thesis and Investigation.**—Investigation of horticultural problems. (Thesis not required for 22b.) *I, II*; (5-10).[1]

Prerequisite: Senior standing; permission of the head of the department.

43. **Greenhouse Fertilizers.**—Soils and fertilizers; moisture and carbon dioxide content of the air; temperature as related to greenhouse crops. Lectures; seminar. *I*; (3). Dr. LEHENBAUER

Prerequisite: Botany 27a; Agronomy 9; Horticulture 3 or 15a.

44. **Pomology Seminar.**—Assigned topics; review of books, technical journals and other publications. (For seniors and graduates specializing in pomology.) *I* or *II*; (½). Assistant Professor PICKETT, Assistant Professor BAILEY

45. **Plant Nutrition.**—Carbohydrates, proteins, organic acids, and other organic compounds of plants and their relation to plant nutrition. Lectures; laboratory. *I, II*; (5). Dr. ENGLIS

Prerequisite: Botany 1· Chemistry 13a; Chemistry 14a-14b and 9a, or 9 and 9c, if not being carried at the same time.

46. **Marketing Horticultural Products.**—Marketing of fruits and vegetables. (For seniors and graduates specializing in horticulture.) *I*; (2). Professor LLOYD

Courses for Graduates

At least two years of collegiate work in horticulture and allied subjects and specific preparation for the chosen topics are required for entrance on major work in this department.

103. **Olericulture.**—Horticultural relationships, origins, breeding, fertilizing, cultural requirements, and improvement of vegetables. Conferences. *I, II; (1 to 2 units; a student working part time and extending his study for the master's degree over two years may register ½ to 1 unit for each of the four semesters).*

Professor LLOYD

108. **Pomology.**—Special problems; relationship, adaptation, improvement, propagation, cultivation, pruning, protection, preservation, or marketing of small fruits and orchard fruits. Conferences. *I, II; (1 to 2 units; a student working part time and extending his study for the master's degree over two years may register for ½ to 1 unit for each of the four semesters).*

Professor BLAIR, Professor CRANDALL, Professor LLOYD, Assistant Professor PICKETT

115. **Floriculture.**—The horticultural status of flowering plants, or special problems in the culture of greenhouse plants. *I, II; (1 to 2 units).*

Assistant Professor DORNER

[116. **Chemistry of Plant Nutrition.**—Research course following Horticulture 45. Lectures; seminar; laboratory. *I, II; (¾ to 1¼ units).* Not given, 1917-18.]

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

Summer Session Courses

S 1a. Elements of Horticulture.—The farm home; orcharding; orchard insects and diseases; methods of control. (2). Assistant Professor PICKETT

S 1b. Elements of Horticulture.—Vegetable gardening; storage of vegetables and fruit for winter; ornamental planting. (2). Assistant Professor PICKETT

S 10a. Landscape Gardening.—Home surroundings, school grounds, parks, and public building sites. Lectures; laboratory. (2). Mr. NICOLET

HOUSEHOLD SCIENCE

ISABEL BEVIER, Ph.M., *Professor and Director*
RUTH WHEELER, Ph.D., *Assistant Professor*
CORA EMELINE GRAY, M.S., *Associate*
MAUD EDNA PARSONS, A.B., *Associate*
LORINDA PERRY, Ph.D., *Associate*
LUCILE WHEELER, A.M., *Associate*
LEONA HOPE, *Associate*
GEORGIA ELIZABETH FLEMING, B.S., *Instructor*
VIOLA JENNIE ANDERSON, M.S., *Instructor*
FLORENCE HELEN CHURTON, B.S., *Instructor*
SARAH AUGUSTA SUTHERLAND, B.S., *Instructor*
MRS. JOSEPHINE KERR ALLISON, M.S., *Assistant*
LYDA BOND, B.S., *Assistant*
IRMA IDA LATZER, A.M., *Assistant*

Major: 20 hours from any courses offered by the department, excluding Household Science 2 and 7, and including Household Science 3, 5, 6, and 12. To satisfy the requirement for the Major, students transferring from other institutions must take at least one of the following: 4, 5, 11, 17, 18.

Minors: 20 hours from either (a) chemistry, bacteriology, and physiology; or (b) economics (a minimum of eight hours), with one or two of the following subjects: art and design, education, history, psychology, and sociology.

1. Selection and Preparation of Food.—Nature and uses of foods; chemical composition; effects of heat, cold, or fermentation; selection; marketing; manufacture; combinations. *II*; (3). Miss LUCILE WHEELER, Miss ANDERSON

Prerequisite: Entrance credit in physics; Chemistry 1.

2. Home Architecture and Sanitation.—Situation, surroundings, and construction of the house; hygiene, heating, lighting, ventilation, water supply, and drainage. House planning and sanitary plumbing, fixtures, and internal drainage; skeleton plans. *I*; (2). Professor BEVIER, Miss FLEMING, Mrs. ALLISON, Assistant Professor ASH, and others

3. Elementary Home Decoration.—Evolution of the house and home; homes of primitive peoples; color in home decoration; furnishings from a sanitary and artistic standpoint. *II*; (3). Professor BEVIER, Miss HOPE, Miss PERRY

Prerequisite: Art and Design 12; Household Science 2; junior standing.

4. Food and Nutrition.—Physiological, chemical, and bacteriological problems of food and nutrition. Individual investigation. *I*; (5).
Assistant Professor WHEELER

Prerequisite: Bacteriology 5; Chemistry 13a, 9, 9c; Household Science 5.

5. Dietetics.—Diet; the relation of food to health; influence of age, sex, and occupation on diet; dietaries; dietetic treatment of diseases. Laboratory. *I* or *II*; (3). Assistant Professor WHEELER, Miss LATZER

Prerequisite: Household Science 1, 6; Physiology 4.

6. **Economic Uses of Food.**—(Continuation of Household Science 1.) The economics of the food question; preservatives. *I*; (4).

Miss Lucile Wheeler, Miss Anderson

Prerequisite: Household Science 1; credit or concurrent registration in Chemistry 2a.

7. **Textiles.**—Development of the textile industry; fibers and materials; bettering textile conditions. *I* or *II*; (2). Miss Sutherland

9. **Individual Problems.**—Different phases of home economics. *II*; (3).

Professor Bevier

Prerequisite: Senior standing.

10. **Household Management.**—Expenditure of income; organization of household; care of house and family; home nursing; domestic service. Laboratory work in practise apartment. *I* or *II*; (2). Miss Gray, Mrs. Allison

Prerequisite: Household Science 1, 2, 6; Economics 1 or 2.

11.[1] **Teachers' Course.**—Methods of presenting work; correlation with other subjects; planning and presenting courses. (Two inspection trips are made to other schools, one in April and one in May; total cost not over $5.) *II*; (3).

Professor Bevier, Miss Churton, Miss Sutherland

Prerequisite: Household Science 5, 12, and 13; laboratory work in sewing first semester; senior standing.

12. **Clothing.**—(Continuation of Household Science 19.) Drafting, cutting, fitting, and making garments. Demonstrations; laboratory. *II*; (3).

Miss Fleming, Miss Sutherland

Prerequisite: Household Science 19. Proof of ability to do plain sewing.

13. **History of Home Economics.**—Home economics in the education of women; the work in different institutions; planning of courses. *I*; (2).

Professor Bevier, Miss Churton, Miss Sutherland

Prerequisite: Senior standing.

14. **Problems in the Preparation and Service of Food.**—Preparation and serving of meals for a family; cost; individual problems in manipulation of materials; kitchen and dining room equipment. *I* or *II*; (3). Miss Gray, Mrs. Allison

Prerequisite: Household Science 6, 10, and consent of the instructor; credit or concurrent registration in Household Science 5.

15. **Economics of the Family Group.**—The family; development of the household; consumption of wealth; income; expenditures; the family and the community. *I* or *II*; (3). Dr. Perry

Prerequisite: Household Science 3, 5, 12; Economics 1 or 2.

[17. **Problems in the Study of Textiles.**—Microscopic and chemical analysis of fabrics; dyeing; special problems. *II*; (3). Not given 1917-18.

Prerequisite: Household Science 7, 12; Chemistry 1, 2a.]

18. **Lunch Room Management.**—Organization and equipment of lunch rooms. Laboratory. (Class takes a trip to Chicago to inspect lunch rooms; cost of about $15.) *I* or *II*;. (5). Miss Parsons

Prerequisite: Household Science 5; Economics 1 or 2; senior standing.

19. **Dress Design.**—Dress from artistic, historic, economic, and hygienic standpoints. Silhouette, proportion, line, color. *I*; (3). Miss Hope

Prerequisite: Art and Design 1, 12; Household Science 7.

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[1] Millinery for those taking Household Science 11 is given from 10 to 12 o'clock on Saturday the second semester, and sewing from 2 to 4 o'clock Tuesday or 10 to 12 o'clock Saturday the first semester.

[20. **Infant Nutrition.**—Lectures; readings; discussions. *II*; (2). Not given 1917-18. Assistant Professor WHEELER

Prerequisite: Household Science 4; senior standing.]

21. **Weaving.**—Design and weaving. Lectures; laboratory. *I* or *II*; (1). Miss SUTHERLAND

Prerequisite: Art and Design 1, 12; Household Science 7.

[22. **Theory of Form and Color.**—Value and intensity; analogous and contrasted harmony; keying; balance; plant forms and textiles. *I*; (3). Not given, 1917-18.

Prerequisite: Architecture 23.]

[23. **Theory of Form and Color.**—Rhythm, balance, harmony; proportion; composition; still-life. *II*; (3). Not given, 1917-18.

Prerequisite: Household Science 22.]

[24. **Color Application (Freehand).**—Problems in modern interiors; form, color, balance, emphasis, unity. *I*; (2). Not given, 1917-18.

Prerequisite: Household Science 23.]

[25. **Color Application (Freehand).**—(Continuation of 24.) *II*; (2). Not given, 1917-18.

Prerequisite: Household Science 24.]

[26. **Floor and Wall Coverings; Pictures.**—Selection, framing, and hanging of pictures; floor and wall coverings, hangings, and furniture as related to decorative unity; design and texture; scale. *I*; (3). Not given, 1917-18.

Prerequisite: Architecture 16, 34.]

[27. **Furniture and Brasses.**—History of furniture; relation to architecture; period styles. *II*; (3). Not given, 1917-18.

Prerequisite: Household Science 3, 23; Architecture 16.]

28. **Organization of the Household.**—Form and functions; division of labor; use of machinery; domestic service; retail markets; scientific management; cooperative housekeeping. *I* or *II*; (3). Dr. PERRY

Prerequisite: Household Science 15.

Courses for Graduates

This department offers graduate work along two lines, one dealing with the applications of the biological and physical sciences to the problems of food and nutrition; the other with the economic problems of the household. In either case the student must offer a minimum of ten hours' work in food, eight in textiles and clothing, five with the house, eight of chemistry, eight of biological science, and three in the principles of economics. In addition each student must offer according to the line of specialization, five additional hours in economics or a second year of chemistry, including quantitative and organic chemistry.

101. **Home Economics.**—Origin and development; industrial, educational, and sociological aspects. *Twice a week; II; (1 unit).* Professor BEVIER

102. **Special Investigations.**—Bacteriology, chemistry, and physiology of the ordinary processes used in the preparation of food; problems in nutrition. *Twice a week; I, II; (1 unit).* Professor BEVIER and Assistant Professor WHEELER

103. **Seminar.**—Recent advances in nutrition. *Once a week*; *II*; (*½ unit*). Assistant Professor WHEELER

104. **Economic Problems of the Family Group.**—Economic phases of selected problems of the household. *Twice a week; I, II; (1 unit).* Dr. PERRY

Summer Session Courses

Foods.—The work offered in foods is of two grades: (a) that designed for those who have studied or taught household science and wish to prepare themselves to teach it in high school; (b) advanced work dealing with the general subject of nutrition.

S 1. Foods.—Sources and cost; cooking; planning and service of meals. (2). Miss MacKinnon, Miss Carter

S 2. Foods (Advanced Course).—Relative nutritive values; dietetic values; relation of foods to the human body. (2). Miss MacKinnon, Miss Carter

Prerequisite: A year's work of college rank with foods; a year of general chemistry; a course in general physiology.

S 4. Clothing.—Textiles: cost and care of clothing: patterns; drafting; making. Lectures; discussion. (2). Miss Lamoreaux

S 5. Millinery.—Design and construction of wire, buckram, and cape net frames; covering with velvet and straw. Demonstrations; laboratory. (1½). Miss Lamoreaux

S 6a. Costume Design.—Appropriate dress; proportion of parts; outline of figure; color harmony. (1½). Miss Hope

S 6b. **House Decoration and Furnishing.**—History of furniture; perspective drawing of rooms; color schemes; weaving. (1½). Miss Hope

Prerequisite: Art and Design 1, Household Science 7.

S 22. **Home Nursing and First Aid.**—General care of a patient; sick-room appliances; surgical supplies and bandages (Red Cross); bandaging. Four weeks beginning June 18. Lectures; demonstrations; laboratory. (1). Miss Brooks

S 18a. **Institutional Cookery and Marketing.**—Lectures; laboratory. (2½). Miss Parsons

Prerequisite: A year's work of college rank with foods; a year of general chemistry; a course in general physiology.

LAW

Henry Winthrop Ballantine, A.B., LL.B., *Professor and Dean*
Oliver Albert Harker, A.M., LL.D., *Professor*
Frederick Green, A.M., LL.B., *Professor*
Edward Harris Decker, A.B., LL.B., *Professor*
John Norton Pomeroy,[1] A.M., LL.B., *Professor*
William Green Hale, B.S., LL.B., *Professor*
Charles Ernest Carpenter, A.M., LL.B., *Assistant Professor*

(For details of courses, see special College of Law program to be issued in September, 1918.)

First Year Courses

1a-1b. Contracts.—Keener: *Cases on Contracts*; Ballantine: *Problems in Law of Contracts. I;* (4) *II;* (3). Professor Decker

2a-2b. Torts.—Ames and Smith: *Cases on Torts. I;* (3); *II;* (2). Professor Hale

10. Real Property.—Aigler: *Cases on Property. II;* (3). Professor Ballantine

5. Criminal Law.—Mikell: *Cases on Criminal Law. I;* (3). Professor Ballantine

6. Personal Property.—Warren: *Cases on Property. I;* (3). Professor Green

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[1] On leave of absence, second semester.

7. **Domestic Relations.**—Kales: *Cases on Persons* (2d edition). *II;* (2).
Professor Green

11. **Agency.**—Wambaugh: *Cases on Agency. II;* (3).
Assistant Professor Carpenter

37-38. **Introduction to the Study of Law and Brief Making.**—*I, II;* (2).
Professor Decker, Professor Hale

Second and Third Year Courses

4. **Common Law Pleading.**—Keigwin: *Precedents of Pleading and Illinois Cases. I;* (3). Professor Ballantine

8. **Evidence.**—Thayer: *Cases on Evidence* (2d edition). *I;* (4).
Professor Hale

9. **Sales.**—Williston: *Cases on Sales. II;* (3). Professor Hale

10. **Real Property.**—Aigler: *Cases on Property. II;* (3).
Professor Ballantine

12a-12b. **Equity.**—Ames: *Cases on Equity. I;* (5). Professor Pomeroy

[13. **Damages.**—Beale: *Cases on Damages* (2d edition). *I;* (2). Not given, 1917-18.]

14. **Carriers.**—Green: *Cases on Carriers. II;* (3). Professor Green

15. **Bills and Notes.**—Huffcut: *Cases on Bills and Notes* (Colson's edition). *I;* (2). Professor Decker

16. **Trusts.**—Ames: *Cases on Trusts* (2d edition). *II;* (3).
Assistant Professor Carpenter

[18. **Wills.**—Warren: *Cases on Wills. II;* (2). Not given, 1917-18.
Professor Pomeroy]

19. **Partnership.**—Gilmore: *Cases on Partnership* (2d edition). *I;* (2).
Professor Hale

20. **Equity Pleading.**—*Selected Illinois and Federal Cases on Equity Pleading. II;* (2). Professor Harker

[24. **Municipal Corporations.**—Beale: *Cases on Municipal Corporations. II;* (2). Not given, 1917-18.]

27. **Future Interests in Property.**—*I;* (3). Gray: *Cases on Property*, Vol.V.
Assistant Professor Carpenter

[28. **Insurance.**—*I;* (2). Not given, 1917-18. Professor Green]

30. **Public International Law.**—Lawrence: *Principles of International Law.* Scott: *Cases on International Law. I;* (2). Professor Garner

[32. **Quasi-Contracts.**—Thurston: *Cases on Quasi-Contracts. I;* (2). Not given, 1917-18. Assistant Professor Carpenter]

[33. **Restraint of Trade.**—Kales: *Cases on Combinations. II;* (2). Not given, 1917-18. Professor Hale]

[34. **Public Utilities.**—Burdick: *Cases on Public Service Companies* (2d edition). *II;* (2). Not given, 1917-18.]

35b. **Practise Court.**—*II;* (1). Professor Harker

Third Year Courses

4a. **Illinois Procedure.**—*I;* (3). Professor Harker

17. **Private Corporations.**—Canfield and Wormser: *Cases on Private Corporations. II;* (4). Professor Green

21. **Suretyship.**—Ames: *Cases on Suretyship. II;* (3). Professor Decker

22. **Constitutional Law.**—Hall: *Cases on Constitutional Law. I;* (4).
Professor Green

[23. **Mortgages.**—Wyman: *Cases on Mortgages. II;* (2). Not given, 1917-18. Professor Pomeroy]

25. **Bankruptcy.**—Williston: *Cases on Bankruptcy* (2d edition). *I;* (2). Not given, 1917-18. Professor Pomeroy

26. **Legal Ethics.**—Costigan: *Cases in Legal Ethics. II;* (1). Professor Harker

29. **Office Practise.**—Selected abstracts and problems in drafting documents. *II;* (2). Professor Ballantine

31. **Conflict of Laws.**—Beale: *Shorter Selection of Cases on Conflict of Laws. I;* (3). Assistant Professor Carpenter

36a-36b. **Practise Court.**—*I, II;* (2). Professor Harker

LIBRARY SCIENCE

Phineas Lawrence Windsor, Ph.B., *Director*
Frances Simpson, M.L., B.L.S., *Assistant Director, Assistant Professor*
Florence Rising Curtis, A.M., B.L.S., *Associate*
Ethel Bond, A.B., B.L.S., *Instructor*
Emma Felsenthal, Ph.B., B.L.S., *Instructor*
Sabra Wilbur Vought, A.B., B.L.S., *Instructor*
Edna Lyman Scott, *Special Lecturer*
Francis Keese Wynkoop Drury, A.M., B.L.S., *Lecturer, Order*
Margaret Hutchins, A.B., B.L.S., *Lecturer, General Reference*
Alice Sarah Johnson, A.B., B.L.S., *Lecturer, General Reference*
Margaret Stuart Williams, A.B., B.L.S., *Lecturer, General Reference*
Eva Cloud, *Lecturer* (*Summer Session*)

Courses for Freshmen and Sophomores

12. **General Reference.**—Classification and arrangement of books in the University library; card catalogs; reference books. (Intended for freshmen and sophomores in the University, not for students in Library School.) *I* or *II;* (2).
Miss Hutchins, Miss Felsenthal, Miss Johnson, Miss Vought, Miss Williams

Courses for Library School Juniors

2a-2b. **Reference.**—Methods of bibliographical research; reference books; practical work in the reference department of the University library. *I, II;* (3). Assistant Professor Simpson

3a-3b. **Selection of Books.**—Selection for libraries of different types; standard lists, critical periodicals, and other aids; practise in writing book annotations. *I, II;* (2). Miss Felsenthal

16. **Order, Accession, and Shelf.**—Order department records and routine; book-buying; publishers and discounts; serials and continuations; gifts; exchanges; duplicates; the accession book and its substitutes; the shelf list and its uses; care of pamphlets, clippings, and maps. *I;* (2). Miss Curtis

17. **Classification.**—Book classification; Dewey Decimal Classification; Cutter Expansion Classification; book numbers. *I;* (3). Miss Bond

18. **Cataloging.**—Dictionary cataloging; subject headings; classed cataloging. *I;* (3). Miss Bond

19. **Trade Bibliography.**—Books and periodicals used as tools of the book trade of America, England, Germany, and France. *II;* (1). Miss Vought

20. **Loan Department.**—Records connected with the loan of books; representative loan systems; rules, regulations, and practises. *I;* (1). Miss Vought

21. Printing, Binding, and Indexing.—Printing for libraries; preparing copy and reading proof. Materials and methods of bookbinding for libraries; preparing books for the bindery and making necessary records. Indexes: form of citation; choice and arrangement of headings. *II;* (2). Director WINDSOR, Miss CURTIS

22. Library Extension.—Organization and administration of public libraries, special libraries, state library agencies, library training, library periodicals; field trip (see p. 185). *II;* (3). Miss CURTIS

23a-23b. Library Administration and Current Library Literature.—Current library periodicals, bulletins, reports, catalogs, and reading lists; copyright; small libraries; reading rooms and small library buildings; accounts and business forms. (This course includes an inspection trip to libraries and book-publishing firms in selected cities, requiring about one week and costing approximately twenty dollars.) *I, II;* (1). Miss VOUGHT

30. Practise.—Work in the various departments of the University library. To be taken with Library 2, 16, 17, 18, 19, 20, and 21. *II;* (3). Miss CURTIS

Courses for Library School Juniors and Seniors

[**7. History of Libraries.**—The foundation, development, and resources of the leading libraries of Europe and the United States. *II;* (2). Given in alternate years. Not given, 1917-18.]

9. History of Books and Printing.—History of the early forms of books; the invention and spread of printing; book illustration; book-binding. *II;* (2). Given in alternate years. Mr. WINDSOR

Courses for Library School Seniors

8. Advanced Reference.—Transactions of learned societies; special periodicals and government publications; indexes and other works of value to a large reference department. *I;* (2). Assistant Professor SIMPSON

Prerequisite: Library 2a-2b.

13a-13b. Public Documents.—First semester: United states Documents; reference problems. Second semester: American state and municipal documents; publications of foreign governments. *I, II*; (2). Miss CURTIS, Miss VOUGHT

15a-15b. Seminar in Library Economy.—Special problems; library economy publications. *I, II*; (2). Assistant Professor SIMPSON and others

24a-24b. Selection of Books.—English translations of representative works of French, German, Spanish, Italian, and Russian novelists of the 19th century; examination of newly published books. *I, II*; (2).

Miss FELSENTHAL, Mr. DRURY, Mrs. SCOTT

26a-26b. Library Administration.—Advanced order work; library organization; architecture; legislative and municipal reference work; work with children; special topics. (This course includes an inspection trip to libraries and book-publishing firms in selected cities, requiring about one week and costing approximately twenty dollars, and also one month of field work in a designated library, costing approximately forty dollars.) *I, II*; (3). Assistant Professor SIMPSON, Mr. DRURY, Mrs. SCOTT, Miss VOUGHT

27. Bibliographical Institutions.—Organization and work of bibliographical societies and institutions of America and Europe; cooperative bibliographical undertakings; international bibliography. *I;* (1). Miss VOUGHT

28. Practise.—Advanced practise in certain departments of the University library. *II*; (1 to 4).[1]

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e.g., not *1-4*, but *1*, or *2*, or *3*, or *4*.

29. Advanced Classification and Cataloging.—Systems of book classification; rules for cataloging books. *II*; (2). Miss Bond

Prerequisite: Library 17, 18.

40a-40b. Practise.—A continuation of Library 30 supplemented by one month of work as a member of the staff of an assigned public library. *I*, *II*; (3). Miss Curtis

41a-41b. Subject Bibliography.—Selection of books in special subjects; literature and bibliography. Lectures by professors in the departments of the University. *I*, *II*; (1). Director Windsor and others

Summer Session Courses

Note: The courses indicated covered six weeks and received no credit toward the B.L.S. degree. Only people employed in libraries were admitted.

S 1. Classification; Cataloging; Book Numbers.—*Five times a week.*

S 2. Reference Work.—Reference books suited to the small public library. *Twice a week.*

S 3. Selection of Books.—Book selection and subject bibliography. *Twice a week.*

S 4. Work with Children.—Selection and discussion of children's books; administration of children's libraries; classification and cataloging. *Twice a week.*

S 5. Order and Accession; Loan Department; Binding and Repair.—*Twice a week.*

S 6. Library Administration and Extension.—*Twice a week.*

MANUAL TRAINING

Summer Session Only

Ira Samuel Griffith, A.B., *Associate Professor of Manual Arts, University of Missouri*

James Merion Duncan, *Assistant in Pattern-Making*

The courses in manual arts have been arranged to satisfy the needs of three classes of students who attend the summer sessions; (1) superintendents, principals, and teachers in small schools who pursue the work with the idea of either teaching or supervising it in their schools; (2) manual arts teachers and supervisors who take the courses to increase their knowledge and experience; (3) students in other courses who take the work to enrich their experience.

S 1. Theory and Practise of Teaching Manual Training in the Intermediate and High Schools.—Industrial education; typical schools and systems; organization of work; equipments, new methods and materials. (2½). Associate Professor Griffith

S 2. Woodworking.—(A course for teachers in the 7th and 8th grades and high schools.) Tools; joints; arts and crafts furniture; talks, papers, problems; notebook and bench work. (3). Associate Professor Griffith, Mr. Duncan

S 3. Furniture Construction.—For teachers who have completed S 2. Construction of furniture; typical woodshop machines; advanced handtool work; elementary woodturning; woodfinishing. (3). Associate Professor Griffith, Mr. Duncan

MATHEMATICS

Edgar Jerome Townsend, Ph.D., LL.D., *Professor*

George Abram Miller, Ph.D., *Professor*

Henry Lewis Rietz, Ph.D., *Professor*

James Byrnie Shaw, D.Sc., *Associate Professor*

Charles Hirschel Sisam, Ph.D., *Assistant Professor*
Arnold Emch, Ph.D., *Assistant Professor*
Robert Daniel Carmichael, Ph.D., *Assistant Professor*
Arthur Robert Crathorne, Ph.D., *Assistant Professor*
Ernest Barnes Lytle, Ph.D., *Associate*
Gustaf Eric Wahlin, Ph.D., *Associate*
Aubrey John Kempner, Ph.D., *Associate*
Edward Wilson Chittenden, Ph.D., *Instructor*
Lyman Morse Kells,[1] Ph.D., *Instructor*
John Rogers Musselman,[1] Ph.D., *Instructor*
Eugene Francis Simonds, Ph.D., *Instructor*
James Elijah McAtee, Ph.D., *Instructor*
Raymond Franklin Borden, A.M., *Assistant*
Clarence Hudson Richardson, B.S., *Assistant*
Hobert Dickinson Frary,[1] M.E., M.S., *Assistant*
William Edmund Edington,[1] A.B., *Assistant*
Roscoe Woods, M.S., *Assistant*
Arthur William Larsen,[1] A.M., *Assistant*
Leonard L Steimley, A.M., *Assistant*
Cooperating:
Joel Stebbins, Ph.D., *Professor of Astronomy*

Major: 20 hours made up from any undergraduate courses offered by the department except Mathematics 2, 4, and 8, and including Mathematics 7 and 9.

Minors: 20 hours selected from physics, chemistry, and astronomy.

Courses for Undergraduates

2. **College Algebra.**—*I* or *II*; (3). Associate Professor Shaw, Assistant Professor Sisam, Assistant Professor Emch, Dr. Lytle, Dr. Wahlin, Dr. Kempner, Dr. Simonds, Dr. Chittenden, Dr. Kells, Dr. Musselman, Dr. McAtee, Mr. Richardson, Mr. Borden, Mr. Edington, Mr. Frary, Mr. Woods, Mr. Larsen

Prerequisite: Entrance algebra, 1½ units; plane geometry, 1 unit.

3. **Algebra.**—(For students presenting only one unit of entrance algebra.) The more advanced topics of elementary algebra in addition to the work of college algebra (Math. 2). *I*; (5). Dr. Lytle, Dr. Kempner

Prerequisite: Entrance algebra, one unit; plane geometry, one unit.

4. **Plane Trigonometry.**—*I* or *II*; (2). Assistant Professor Emch, Assistant Professor Carmichael, Dr. Lytle, Dr. Wahlin, Dr. Kempner, Dr. Chittenden, Dr. Kells, Dr. Musselman, Dr. Simonds, Mr. Richardson, Mr. Borden, Mr. Edington, Mr. Frary, Mr. Woods, Mr. Larsen, Mr. Steimley

Prerequisite: Entrance algebra, 1½ units; plane geometry, 1 unit.

6. **Analytic Geometry.**—Plane and solid analytic goemetry. *II*; (5). Professor Miller, Associate Professor Shaw, Assistant Professor Crathorne, Dr. Lytle, Dr. Wahlin, Dr. Kempner, Dr. Chittenden, Mr. Richardson, Dr. Simonds, Dr. McAtee, Mr. Borden, Mr. Woods, Mr. Steimley

Prerequisite: Mathematics 2, 4.

7-9.—**Differential and Integral Calculus.**—The principles developed and applied to functions of one and of several variables. (Section A1 is an honor section and may be selected by those specializing in mathematics and by other students having high grades, with the consent of the department.) *I*; (5): *II*; (3). Professor Townsend, Professor Rietz, Assistant Professor Sisam, Associate Professor

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[1] Resigned.

SHAW, Assistant Professor EMCH, Assistant Professor CARMICHAEL, Assistant Professor CRATHORNE, Dr. LYTLE, Dr. WAHLIN, Dr. KEMPNER, Dr. CHITTENDEN, Dr. KELLS, Dr. MUSSELMAN, Dr. SIMONDS, Mr. FRARY

NOTE: Two sections of Mathematics 7 are given the second semester.

8. **Differential and Integral Calculus.**—(For students in chemistry and chemical engineering.) *I*; (5). Professor MILLER, Dr. MUSSELMAN

Prerequisite: Mathematics 6.

9a. **Differential and Integral Calculus.**—(Second course.) The definite (single and multiple) integral; formation of problems; line, surface, and volume integrals; theorem of Stokes and Green; partial differentiation; exact integrals; elements, approximate quadrature, and integration of differential equations. *I*; (2). Professor SHAW, Assistant Professor CRATHORNE, Dr. WILSON, Dr. KELLS, Dr. SIMONDS

Prerequisite: Mathematics 7 and 9, or 8.

Courses for Advanced Undergraduates and Graduates

10. **Theory of Equations and Determinants.**—Properties of an algebraic equation in one unknown; systems of simultaneous equations; a system of linear equations; determinants. *I*; (3). Professor MILLER

Prerequisite: Mathematics 7 and 9, or 8.

16-17. **Differential Equations and Advanced Calculus.**—Ordinary and partial differential equations; special topics of calculus. *I*, *II*; (3). Professor TOWNSEND

Prerequisite: Mathematics 7 and 9, or 8.

18. **Constructive Geometry.**—Space perception; lines, planes, and the simpler surfaces of the second order, studied by parallel and central projection; graphic interpretation of the processes of analytic geometry; analytic discussion of the methods of descriptive geometry. *II*; (3). Assistant Professor EMCH

Prerequisite: Mathematics 6.

19. **Solid Analytic Geometry.**—Equations of the plane and right line in space; surfaces of the second degree; quadrics; surfaces. *II*; (3).
Assistant Professor SISAM

Prerequisite: Mathematics 10.

21. **Method of Least Squares.**—Law of probability and error; adjustment of observations; precision of observation; independent and conditional observations. *I*; (2). Professor STEBBINS

Prerequisite: Mathematics 7 and 9, or 8.

22. **The Theory and Use of Mathematical Instruments.**—The mathematical theory underlying such instruments as the harmonic analyser, the integrator, and various forms of the planimeter, together with their practical use and a consideration of the degree of accuracy. Two lectures, one laboratory period a week. *II;* (3).
Assistant Professor CRATHORNE

Prerequisite: Mathematics 7 and 9.

23. **Averages and Mathematics of Investment.**—Meaning, use, and abuse of averages; probability; annuities, insurance, and branches of science; loans and investments; evaluation of investment securities. *II*; (3).
Assistant Professor CRATHORNE

Prerequisite: Mathematics 2; junior standing.

[30-31. **Actuarial Theory.**—Life contingencies; life tables; monetary tables; valuation of policies to meet statutory requirements; risk; distribution of surplus;

annual reports; inheritance taxes; old age pensions; workmen's compensation; investing the funds of an insurance company. *I, II*; (3). Not given, 1917-18. Professor RIETZ

Prerequisite: Mathematics 7 and 9, or 8, 23.]

[32. **History of Mathematics.**—The elementary subjects; rise and growth of the higher mathematics, chiefly in the nineteenth century; biography. Lectures; reports on assigned reading. *II*; (2). Not given, 1917-18. Dr. LYTLE

Prerequisite: Eighteen hours of mathematics.]

35. **Teachers' Course.**—Secondary algebra and geometry; educational value; position in course; methods of teaching; correlation; American and foreign methods; order and importance of topics; textbooks; literature. Lectures; discussions; reports. *I;* (2). Dr. LYTLE

Prerequisite: Eighteen hours of mathematics.

40. **Fundamental Concepts of Mathematics.**—The number concept; unity; aggregate, order, and correspondence; irrationals and limits, transcendence of e and π; parallel axiom and non-euclidian geometries; constructions with ruler and compass; function; logic of mathematics. *II*; (2). Dr. LYTLE

Prerequisite: Eighteen hours of mathematics.

90-91. **Undergraduate Thesis.**—Special training in mathematical investigation for seniors. *I, II*; (2). Members of the department

Prerequisite: Twenty-four hours of college mathematics.

Courses for Graduates

100. **Seminar and Thesis.**—*Three times a week; I, II; (1 or 2 units).* Professors in department

[101. **Functions of Real Variables.**—(Introductory course.) Functions of real variables; analysis; assemblages; proofs in differential and integral calculus. *Three times a week; I, II; (1 unit).* Not given, 1917-18. Professor TOWNSEND

Prerequisite: Mathematics 16, 17.]

102. **Functions of a Complex Variable.**—*Three times a week; I, II; (1 unit).* Professor TOWNSEND

[104. **Expansions in Fundamental Functions.**—Integral equations; expansion of arbitrary functions in terms of the characteristic functions of a given nucleus. *Three times a week; I, II; (1 unit).* Not given, 1917-18. Associate Professor SHAW]

[105. **Calculus of Variations.**—Conditions for a maximum or minimum in simple and isoperimetric problems. *Three times a week; I, II; (1 unit).* Not given, 1917-18. Assistant Professor CRATHORNE]

[110. **Elliptic Functions.**—Applications to geometry and mechanics; elliptic modular functions. *Three times a week; I, II; (1 unit).* Not given, 1917-18. Assistant Professor CARMICHAEL]

[111. **Automorphic Functions.**—The group-theoretic side of the theory. Function-theoretic developments and applications. *Three times a week; I, II; (1 unit).* Not given, 1917-18. Assistant Professor EMCH

Prerequisite: Mathematics 102, 110, and preferably 132.]

112. **Theory of Linear Difference Equations.**—The gamma functions; general existence theorems; expansions in functions defined by difference equations; applications to the theory of functions; transcendentally transcendental functions. *I, II; (1 unit).* Assistant Professor CARMICHAEL

Prerequisite: Mathematics 102.

[113. **Theory of Linear Differential Equations.**—Oscillation theorems for ordinary linear equations of the second order in real variables; general existence theorems; function-theoretic considerations of ordinary linear equations of order n in complex variables; linear partial differential equations. *Three times a week; I, II; (1 unit).* Not given in 1917-18. Assistant Professor CARMICHAEL

Prerequisite: Mathematics 102.]

120. **Elementary Theory of Groups.**—Groups in arithmetic, geometry, and trigonometry; groups represented by a small number of letters; the abstract group; Galois theory of equations. *Three times a week; I, II; (1 unit).* Professor MILLER

Prerequisite: Mathematics 33-34.

[121. **Theory of Groups.**—This course presupposes about one year's work in group-theory. *Three times a week; I, II; (1 unit).* Not given, 1917-18. Professor MILLER]

122. **Modern Algebra.**—Matrices; system of linear equations; bilinear and quadratic forms; polynomials; algebraic invariants; elementary divisors. *Three times a week; I, II; (1 unit).* Dr. KEMPNER

Prerequisite: Mathematics 7, 9, 10.

[124. **Theory of Numbers.**—*Three times a week; I, II; (1 unit).* Not given, 1917-18. Dr. WAHLIN]

129. **Theory of Statistics.**—General methods of statistical investigation, application to problems in economics, sociology, and biology. *Three times a week; I, II; (1 unit).* Professor RIETZ

[130. **Invariants and Higher Plane Curves.**—Algebraic curves; invariants and higher plane curves; curves of the third and fourth order. *Three times a week; I, II; (1 unit).* Not given, 1917-18. Assistant Professor SISAM

Prerequisite: Mathematics 16, 17, 132.]

131. **Algebraic Surfaces.**—Homogenous coordinates, theory of invariants, geometry of three dimensions; surfaces; surfaces of the third and fourth order. *Three times a week; I, II; (1 unit).* Assistant Professor SISAM

132. **Projective Geometry.**—Fundamental concepts; anharmonic ratio; projective pencils and ranges; transformations and groups; conics and quadric surfaces; pencils and ranges of conics; quadratic transformations and projective theory of cubics; applications in mechanics. *Three times a week; I, II; (1 unit).* Assistant Professor EMCH

Prerequisite: Graduate standing in mathematics.

[135. **Differential Geometry.**—Calculus and the general theory of curves and surfaces based on the use of Cartesian coordinates; theory of surfaces and theory of invariants of a pair of quadratic differential forms. *Three times a week; I, II; (1 unit).* Not given, 1917-18. Assistant Professor SISAM]

[141. **Vector Methods.**—The algebras of quaternions, space analysis, and dyadics; differentiation and integration; rational mechanics, elasticity, hydrodynamics, electrodynamics. *Three times a week; I, II; (1 unit).* Not given, 1917-1918. Associate Professor SHAW

Prerequisite: Mathematics 16-17.]

142. **General Algebra.**—*Three times a week; I, II; (1 unit).* Associate Professor SHAW

Summer Session Courses

Beginning with 1917, the department of mathematics plans to offer at least five courses each summer for graduates and advanced undergraduates, and to so vary these courses as to enable advanced students to secure a suitable sequence during four or five successive summer sessions. Three of these five courses are of an intermediate grade, open to advanced undergraduates as well as to graduates, while the other two are primarily for graduate students.

The intermediate courses are for the present to be devoted to the following six subjects: Theory of equations and determinants, advanced calculus, constructive geometry, advanced algebra, differential equations, and advanced analytic geometry. It is proposed to give a course on each of these subjects every two years.

Courses for Undergraduates

S 2. **College Algebra.**—(3). Mr. Richardson

Prerequisite: Two and one-half units entrance mathematics.

S 4. **Plane Trigonometry.**—(2). Mr. Borden

Prerequisite: Two and one-half units entrance mathematics.

S 6. **Analytical Geometry.**—(5). Mr. Frary

Prerequisite: Mathematics 2 and 4.

S 7. **Differential Calculus.**—(5). Dr. Chittenden

Prerequisite: Mathematics 6.

S 9. **Integral Calculus.**—(3). Dr. Wahlin

Prerequisite: Mathematics 7.

S 10. **Theory of Equations and Determinants.**—The roots of unity; the conditions which must be satisfied in order to solve a given system of linear equations (2½). Professor Miller

Prerequisite: Mathematics 7, 9.

S 17. **Advanced Calculus.**—Derivatives and differentials. Implicit functions; functional determinants; definite and indefinite integrals; improper integrals and line integrals. (2½). Dr. Wahlin

Prerequisite: Mathematics 7, 9.

S 18. **Constructive Geometry.**—Geometric construction; graphic solutions of mathematical problems; inversion; stereographic, isometric, orthographic, and perspective projections; construction of linkages for curve-tracing. (2½). Assistant Professor Emch

Prerequisite: Mathematics 6.

S 120. **Introduction to Group Theory.**—Fundamental theorems; applications in other fields of mathematics; use of substitution groups for determining a necessary and sufficient condition that rational functions on n variables can be expressed rationally in terms of each other; elementary number theory and elementary group theory. (*1 unit*). Professor Miller

Prerequisite: Mathematics 7, 9, 10.

S 132. **Projective Geometry.**—Fundamental concepts; projectivity; construction of projective pencils, ranges, and conics; projective coordinates, transformations, and groups; polarity and correlation; pencils and ranges of conics; the involutory quadratic transformation. (*1 unit*). Assistant Professor Emch

Prerequisite: Mathematics 7, 9, and preferably a second course in algebra.

MECHANICAL ENGINEERING

Charles Russ Richards, M.E., M.M.E., *Acting Professor and Head of Department*
George Alfred Goodenough, M.E., *Professor, Thermodynamics*
Bruce Willet Benedict,[1] B.S., *Director, Shop Laboratories*
Oscar Adolph Leutwiler, M.E., *Professor, Machine Design*
Arthur Cutts Willard, S.B., *Professor, Heating and Ventilation*
Elisha Noel Fales,[1] A.B., B.S., *Assistant Professor, Aeronautics*

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[1] On leave for military service.

ALONZO PLUMSTED KRATZ, M.S., *Research Associate, Engineering Experiment Station*

ROBERT THOMAS KENNEDY,[1] *Associate, Foundry Practise*

GUSTAVE HOWARD RADEBAUGH, *Associate, Machine Shop Management and Practise, and Acting Director, Shop Laboratories*

HARRY FREDERICK GODEKE, M.E., *Associate, Steam Engineering*

ARTHUR C HARPER, M.E., *Associate, Machine Design*

GUSTAVE ADOLPH GROS,[1] *Associate, Pattern-Making*

WILLIAM HARRISON SEVERNS, M.S., *Instructor, Mechanical Engineering*

EDGAR THOMAS LANHAM, *Instructor, Forge Practise*

JAMES HARVEY HOGUE, *Instructor, Foundry Practise*

JEREMIAH AMOS DE TURK, B.S., *Instructor, Machine Shop Practise*

JOHN GRENNAN, *Instructor, Foundry Practise and Management*

CLEON EDGAR PHELPS,[2] B.S., *Assistant to Director, Shop Laboratories, and Instructor, Shop Management*

JAMES MERION DUNCAN, *Assistant, Pattern-Making*

PETER JOSEPH REBMAN, *Assistant, Forge Practise*

JAMES HENRY PLATT, B.M.E., *Assistant, Machine Design*

JOHN ALEXANDER FRISK, *Assistant and Mechanician*

WILLIAM EDWIN ALLEY, *Assistant and Mechanician*

VINCENT STEPHEN DAY, B.S., *Scientific Assistant and Draftsman*

1. **Steam and Air Machinery.**—Construction, operation, and care of boilers, engines, and air compressors; elementary thermodynamics; steam engine performance; transmission of compressed air and its applications. (For students in civil and mining engineering.) *I*; (3). Mr. KRATZ, Mr. PLATT, Mr. HARPER

Prerequisite: Junior standing.

2. **Steam Engineering.**—Engines, boilers, pumps, condensers, and other steam machinery. *II*; (3). Mr. GODEKE, Mr. KRATZ

Prerequisite: Physics 1a-1b, 3a-3b.

3. **Steam Engineering.**—The steam engine, steam turbine, and other steam machinery. (For students in mechanical engineering.) *I*; (3). Mr. GODEKE

Prerequisite: Junior standing.

11. **Thermodynamics and Heat Engines.**—(For students in electrical engineering.) *I*; (3). Professor GOODENOUGH

Prerequisite: Mechanical Engineering 1 or 2.

12. **Thermodynamics.**—Transformation of heat into work; the second law and its connection with irreversible processes; properties of heat media; perfect gases; saturated and superheated vapors; flow of fluids. *II*; (5). Professor GOODENOUGH

Prerequisite: Mathematics 9a; Theoretical and Applied Mechanics 27.

15. **Gas Power Engineering.**—Internal combustion engines; liquid and gaseous fuels and their combustion; gas producers. *I*; (3). Professor GOODENOUGH

Prerequisite: Mechanical Engineering 12.

23. **Mechanical Equipment of Buildings.**—Designing simple systems, including heating and ventilation, refrigeration, fire protection, vacuum cleaning, elevators, lighting, and small power plants. Lectures; laboratory. *I*; (5). Professor WILLARD, Mr. KRATZ

Prerequisite: Senior standing.

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[1] On leave for military service.

[2] Resigned.

25. Heating and Ventilation for Architects.—Direct and indirect steam and hot water heating; furnace heating; ventilation and air analysis; air condition; temperature and humidity control. *I*; (2). Professor WILLARD

Prerequisite: Senior standing.

26. Heating and Ventilation. Steam boilers and water heaters of steel and cast iron: heat losses from buildings; direct and indirect heating; furnace heating; fan blast or mechanical systems; exhaust steam heating; district heating; ventilation and air analysis; air conditioning; temperature and humidity control. *II*; (3). Professor WILLARD

Prerequisite: Mechanical Engineering 65.

30. Mechanics of Machinery.—Mechanisms and mechanical movements; cams, gears, valve gears, and quick-return motions; graphic constructions for displace-ment, velocity, and acceleration, kinetics of the steam engine and similar mechanisms: balancing critical speeds; force and mass reduction. *II*; (5). Mr. HARPER, Mr. PLATT

Prerequisite: Theoretical and Applied Mechanics 27.

32. Power Transmission.—Shafting, belts, ropes, cables, water, air, gas, and steam as power transmitters; measurement and storage of power. *II*; (3). Professor LEUTWILER

Prerequisite: Mechanical Engineering 12 and 43.

[**33. Aeronautic Engineering.**—History and development; design and construction of air craft. *I*; (3). Not given, 1917-18.

Prerequisite: Senior standing in the College of Engineering.]

[**37. Principles of Management.**—Industrial development; modern tendencies; organization; selection and compensation of labor; application of science to industrial problems; systems of management; production. *I;* (3). Not given, 1917-18.

Prerequisite: Mechanical Engineering 81, 82.]

43. Engineering Design.—Machine design; investigation of machines similar to the one to be designed; machinery subjected to heavy and variable stresses; punches, shears, presses, riveters, and cranes. *I*; (5). Professor LEUTWILER, Mr. HARPER, Mr. PLATT

Prerequisite: Theoretical and Applied Mechanics 29; Mechanical Engineering 30.

44. Engineering Design.—Special tools, fixtures, jigs, dies, and gauges used in modern high production manufacturing. *II*; (2). Professor LEUTWILER

Prerequisite: Mechanical Engineering 37 and 43.

52. Power Plant Design.—Steam power plant. *II*; (3). Professor LEUTWILER, Mr. HARPER, Mr. PLATT

Prerequisite: Mechanical Engineering 43 and 65.

61. Power Measurement.—Testing and calibration of instruments and apparatus; the indicator; horse-power and steam consumption; indicator diagrams; valve setting. (For students in electrical engineering.) *I*; (2). Mr. GODEKE, Mr. SEVERNS, Mr. DAY

Prerequisite: Mechanical Engineering 1 or 2.

62. Power Measurement and Steam Engines.—Laboratory work, similar to that given in Mechanical Engineering 61, supplemented by lectures on steam machinery. *II*; (3). Mr. GODEKE

Prerequisite: Junior standing.

64. Power Measurement.—Apparatus for engine and boiler tests—scales, thermometers, indicators, brakes and dynamometers, gauges, calorimeters; calibrating and using apparatus; horse-power of steam engines; pumps, and gas engines. Reports. *II*; (3). Mr. GODEKE, Mr. KRATZ, Mr. SEVERNS

Prerequisite: Mechanical Engineering 2; registration in Mechanical Engineering 12 or Chemistry 31.

65. **Power Laboratory.**—Experiments on engines, turbines, gas engines, pumps, boilers, injectors, air compressors, hoisting appliances, heating apparatus, and refrigerating machines. *I*; (3).
Professor WILLARD, Mr. GODEKE, Mr. KRATZ, Mr. SEVERNS

Prerequisite: Mechanical Engineering 12 and 64.

66. **Power Laboratory.**—Special research work in the mechanical engineering laboratory. *II*; (2).

Prerequisite: Mechanical Engineering 65; senior standing.

71. **Forge Work for Agricultural Students.**—Forging and welding; tempering tools; pointing and hardening cultivator shovels, plow shares. *Six hours a week, either half of I or II;* (1). Mr. LANHAM, Mr. REBMAN

73. **Wood Work for Agricultural Students.**—Carpentry for the farmer; tools; layout and construction of building joints; repairs to buildings and equipment. *Six hours a week, either half of I or II;* (1). Mr. GROS, Mr. DUNCAN

75. **Forge Work.**—(9 weeks.) Hand and power forging and welding of metals; heat treatment of carbon and high speed steels in modern gas, electric, and cyanide furnaces; case carbonizing. *I* or *II*; (1). Mr. LANHAM, Mr. REBMAN

77. **Foundry Work.**—(9 weeks.) Modern foundry practise; bench, floor, and machine moulding; core making; cupola and brass furnace; casting of iron, brass and alloys. *I* or *II*; (2). Mr. HOGUE, Mr. GRENNAN

78. **Principles of Foundry Operation.**—Organization and management; planning, routing, dispatching, production, inspection, testing, cost accounting; methods, processes, machines, tools, metals, and materials in modern commercial foundries. (18 weeks). *I* or *II*. Mr. RADEBAUGH, Mr. GRENNAN

Prerequisite: Two units of machine shop and foundry practise in accredited schools or colleges.

79. **Pattern Work.**—(18 weeks.) Hand and machine methods in the production of useful patterns. *I* or *II*; (3). Mr. GROS, Mr. DUNCAN

81. **Machine Work.**—Manufacturing methods; machine operation; shop management; organization; production; dispatching work; ordering, storing, and routing materials; time studies; shop accounting; inspection and all activities of the machine department of a manufacturing plant. *I*; (3). Mr. RADEBAUGH, Mr. DETURK

82. **Machine Work.**—(Continuation of 81). *II*; (2).

83. **Principles of Factory Operation.**—(18 weeks). Organization and management of a machine shop manufacturing a line of standardized products by modern methods. Planning; routing; dispatching; inspection; maintenance; testing; cost accounting. Design methods, processes, machines, tools, and materials. *I* or *II*; (3). Mr. RADEBAUGH

Prerequisite: Two units of machine shop and foundry practise in accredited schools or colleges.

98. **Thesis.**—Investigation of special subject and preparation of thesis embodying a review of the literature of the subject, the results of investigation, and a discussion of those results. *II*; (3).

99. **Inspection Trip.**—*I*; (*no credit*).

Prerequisite: Senior standing.

Courses for Graduates

Entrance upon graduate work in mechanical engineering presupposes the full undergraduate course in that subject.

106. Heat Motors.—The internal combustion motor; steam turbine; refrigeration. *Twice a week; I; (1 unit).* Professor GOODENOUGH

107. Thermodynamics.—Thermodynamics; solution of physical and engineering problems. *Twice a week; I; (1 unit).* Professor GOODENOUGH

109. Machine Design.—Rational design; mechanics of materials. Individual problems. *Twice a week; I or II; (1 unit).* Professor LEUTWILER

112. Laboratory Investigation.—Combustion of fuel; boiler economy; steam engines and turbines; gas engines and producers; properties of explosive mixtures; mechanical refrigeration. Original work. *Three times a week; I, II; (1½ units).* Professor WILLARD and others

114. Dynamics of Machinery.—Advanced problems. Balancing; whirling and vibration of shafts; governors; fly wheels; force and mass reduction; stresses in rotating masses. *Twice a week; I, II; (1 unit).* Professor GOODENOUGH

Summer Session Courses

S 11. Thermodynamics.—(3). Professor GOODENOUGH
Prerequisite: Mathematics 9, 9a, or equivalent.

S 107. Thermodynamics.—Properties of heat media; special problems in physics and engineering. Lectures; assigned readings. (½ *unit.*) Professor GOODENOUGH
Prerequisite: A course in thermodynamics equivalent to M. E. 11 or M. E. 12.

MECHANICS, THEORETICAL AND APPLIED

ARTHUR NEWELL TALBOT, D.Sc., D.Eng., *Professor, Municipal and Sanitary Engineering, in charge of Theoretical and Applied Mechanics*
HERBERT FISHER MOORE, M.M.E., *Research Professor, Engineering Materials, Engineering Experiment Station*
MELVIN LORENIUS ENGER, M.S., C.E., *Associate Professor, Mechanics and Hydraulics*
WILLIS APPLEFORD SLATER,[1] M.S., C.E., *Research Assistant Professor, Applied Mechanics, Engineering Experiment Station*
VIRGIL R FLEMING, B.S., *Assistant Professor, Applied Mechanics*
FRED B SEELY, M.S., *Assistant Professor*
GEORGE PAUL BOOMSLITER, M.S., *Associate*
NEWTON EDWARD ENSIGN, A.B., B.S., *Associate*
HARRISON FREDERICK GONNERMAN, M.S., *Research Associate, Engineering Experiment Station*
WILLIAM JAMES PUTNAM, B.S., *Instructor*
HARALD MALCOLM WESTERGAARD, Ph.D., *Instructor*
FRANK ERWIN RICHART, M.S., *Instructor*
JOSIAH FRANK WARD, C.E., *Research Assistant Engineering Experiment Station*

1. Analytical Mechanics.—(Especially for graduates and advanced undergraduates in Arts and Sciences.) *I*; (3). Mr. ENSIGN
Prerequisite: Mathematics 8 or 9.

2. Analytical Mechanics.—(A continuation of Theoretical and Applied Mechanics 1.) Lamb's *Dynamics. II;* (3). Mr. ENSIGN
Prerequisite: Theoretical and Applied Mechanics 1.

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[1] On leave.

10. Hydraulics.—Pressure and flow of water; utilization as motive power; observation and measurement; power and efficiency; determination of experimental coefficients. Laboratory weekly. *II*; (3). Associate Professor ENGER, Assistant Professor SEELY, Assistant Professor FLEMING, Mr. PUTNAM, Mr. RICHART

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 21.

14. Elements of Mechanics.—Kinematics, kinetics, and statics. (For architects and others who have not taken the calculus.) *II*; (4).
Mr. BOOMSLITER, Mr. WESTERGAARD

Prerequisite: Mathematics 2, 4.

15-16. Strength of Materials.—Graphical methods; elastic curve of beams; centroids and moments of inertia of areas; reinforced concrete beams and columns; tests of engineering materials. (For students in architecture and others without the prerequisites for course 29.) Laboratory every other week. *I*, *II*; (3).
Mr. BOOMSLITER

Prerequisite: Theoretical and Applied Mechanics 14.

20. Analytical Mechanics.—The mechanics of engineering rather than that of astronomy and physics. Equilibrium, centroids and center of gravity, friction; problems; statement of conditions and use of data. *II*; (3).
Mr. ENSIGN, Mr. PUTMAN, Mr. WESTERGAARD, Mr. RICKART

Prerequisite: Mathematics 7; registration in Mathematics 9.

21. Analytical Mechanics.—Continuation of course 20. Kinematics and kinetics. *I*; (2).
Assistant Professor SEELY, Mr. ENSIGN, Mr. WESTERGAARD, Mr. RICHART

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 20.

25. Resistance of Materials.—A briefer course than Theoretical and Applied Mechanics 29. (For students in architectural, ceramic, chemical, electrical, and mining engineering.) *I*; (4). Assistant Professor FLEMING, Assistant Professor SEELY, Mr. ENSIGN, Mr. PUTNAM, Mr. WESTERGAARD, Mr. RICHART

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 20.

26. Analytical Mechanics and Hydraulics.—Kinematics, kinetics, and hydraulics; problems; hydraulic laboratory. (For students in architectural. electrical and mining engineering.) Laboratory weekly during the last half of the semester. *II*; (4). Assistant Professor FLEMING, Assistant Professor SEELY, Mr. PUTNAM, Mr. WESTERGAARD, Mr. RICHART

Prerequisite: Theoretical and Applied Mechanics 25.

29. Resistance of Materials.—Mechanics of materials; properties and requirements for materials of construction; effect of methods of manufacture on quality; specifications and standard tests. (For students in civil, mechanical, and municipal and sanitary engineering.) Recitations; lectures; assigned reading. Laboratory weekly. *I*; (5). Professor TALBOT, Assistant Professor FLEMING, Assistant Professor SEELY, Mr. ENSIGN, Mr. PUTNAM, Mr. WESTERGAARD, Mr. RICHART

Prerequisite: Mathematics 9; 20; registration in Theoretical and Applied Mechanics 21.

36. Analytical Mechanics.—The portion of course 26 which involves analytical mechanics. (Open only to railway electrical engineering students.) *II*; (2).
Mr. PUTNAM

Prerequisite: Theoretical and Applied Mechanics 25.

Courses for Graduates

Entrance on graduate work in theoretical and applied mechanics presupposes a full undergraduate course in that subject.

101. Analytical Mechanics.—Methods; problems and applications; critical and comparative study of texts. *Twice a week; I; (1 unit).* Professor MOORE

102. Resistance of Materials.—Methods of determining properties of materials used in engineering construction; mechanics of materials; effect of form of member in a structure or machine; application of forces; comparative study of texts. *Twice a week; II; (1 unit).* Professor MOORE

103. Hydraulics and Hydraulic Engineering.—The laws of hydraulics and their application to engineering problems; hydraulic power and its development; design and investigation. *Twice a week; II; (½ to 1 unit).* Professor TALBOT

104. Experimental Work in the Laboratory of Applied Mechanics.—Materials and their action as used in machines and structures; pumps, motors, and measuring devices; laws of hydraulics, development of power, hydraulic problems. *Twice a week; I, II; (½ to 2 units).* Professor TALBOT, Professor MOORE

105. Experimental and Analytical Work in Reinforced Concrete.—Research; interpretation of experimental results and their application to the design of structures; principles of construction. *Twice a week; I, II; (1½ units).* Professor TALBOT

Summer Session Courses

S 10. Hydraulics.—(For description see 10 above.) (3). Mr. PUTNAM

Prerequisite: Theoretical and Applied Mechanics 21.

S 20. Analytical Mechanics.—The first half of analytical mechanics as given in Maurer's *Technical Mechanics.* (3). Mr. ENSIGN

Prerequisite: Mathematics 7; registration in Mathematics 9.

S 21. Analytical Mechanics.—The second half of analytical mechanics as given in Maurer's *Technical Mechanics.* (2). Mr. PUTNAM

Prerequisite: Mathematics 9; Theoretical and Applied Mechanics 20.

S 25. Resistance of Materials.—The mechanics and properties of materials used in construction; experiments in the testing laboratory; problems. Merriman's *Mechanics of Materials.* (4). Mr. ENSIGN, Mr. PUTNAM

Prerequisite: Mathematics 9; Theoretical and Applled Mechanics 20.

MEDICINE

(See under COLLEGE OF MEDICINE.)

METEOROLOGY

(See under GEOLOGY.)

MINERALOGY

(See GEOLOGY 5, 5a, 6, 7.)

MILITARY SCIENCE

EDWARD WILLIAM McCASKEY, Major, U. S. A. retired, *Professor and Commandant*
FREDERICK WILLIAM POST, 1st Sergeant, U. S. A. retired, *Administrative Assistant*
CHARLES FAIRMAN, *Assistant*
FREDERICK CASPER KALTHOFF, *Assistant*
ERWIN RISLEY BRIGHAM, *Assistant*
VICTOR HUBERT GROSSBERG, *Assistant*
LELAND EDWARD YEAGER, *Assistant*
NORRIS ONSLOW TAYLOR, *Assistant*
LOUIS HENRY SCHREIBER, *Assistant*

FLOYD EDWARD LUDGREN, *Assistant*
CLARENCE EASTLAKE SNELL, *Assistant*
EDWIN ELWOOD NEWCOMB, *Assistant*
JACOB PAUL SCHNELLBACHER, *Assistant*
CHARLES FRANKLIN MERCER, *Assistant*
ALFRED HAMMOND MORTON, *Assistant*
HAROLD BRUCE WHITNEY, *Assistant*
SIDNEY BRIGGS TRELEASE, *Assistant*
AMOS HOLSTON WATTS, *Assistant*
AUSTIN HAROLD REED FISCHER, *Assistant*

1b-2b-3b-4b. Theoretical Instruction.—Basic Course. Infantry Drill Regulations. For all cadets, freshman and sophomore years. *I, II*; (½). Professor MCCASKEY

1a-2a-3a-4a. Military Drill.—Basic Course. Infantry: Infantry drill regulations; small-arm firing regulations; bayonet exercise; ceremonies. Signal Company: flag; telegraph, wireless; heliograph. Engineer Company: field engineering; map reading; entrenchments; bridge building. Freshman and sophomore years. *Two drill periods a week. I, II;* (½). Professor MCCASKEY

5b-6b-7b-8b. Theoretical Instruction.—Advanced course. Infantry drill; small-arm firing; field service. *Two hours a week. I, II;* (½). Professor MCCASKEY

5a-6a-7a-8a. Military Drill.—Advanced course. *Three hours a week. I, II;* (½). Professor MCCASKEY

MINING ENGINEERING

HARRY HARKNESS STOEK, B.S., E.M., *Professor, Head of the Department*
ELMER ALLEN HOLBROOK,[1] B.S., E.M., *Professor, Mineral Preparation and Utilization*
CLINTON MASON YOUNG, B.S., E.M., *Assistant Professor, Mining Research*
RAY WALTER ARMS, E.M., *Instructor*

1. **Earth and Rock Excavation.**—Explosives; blasting; boring; tunneling; shaft-sinking; coal-cutting; timbering and prospecting. *I*; (3). Assistant Professor YOUNG

Prerequisite: Chemistry 1a or 1b; Geology 13a and 13b.

3. **Mining Principles.**—Terminology; explosives; blasting; drilling; tunneling; shaft-sinking; mining and timbering of flat deposits. (For students in engineering courses other than mining.) *I* or *II*: (3). Assistant Professor YOUNG, Mr. ARMS

Prerequisite: Chemistry 1a or 1b; junior standing.

4. **Mining Methods.**—Mining and timbering of bedded, vein, and placer deposits. *II*; (3). Professor STOEK

Prerequisite: Mining 1.

5. **Mine Ventilation.**—Mine gases; safety lamps; mine ventilation; lighting and signaling; explosions and mine fires; rescue work and first aid. Laboratory work. *I*; (3). Professor STOEK

Prerequisite: Chemistry 1a or 1b, 4; Physics 1a-1b, 3a-3b; Mining 4.

6. **Mechanical Engineering of Mines.**—Hoisting: ropes, cages, hoisting engines, and other appliances. Haulage: systems used underground and on the surface; methods of loading and unloading; mine stables; transportation of workmen. Drainage of mines: mine dams, mine pumps. *II*; (2). Mr. ARMS

Prerequisite: Mechanical Engineering 1, or equivalent.

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[1] Resigned, November, 1917.

8. **Mine and Metallurgical Law, Administration, and Accounts.**—Laws governing location, ownership, and policing of mines. Trade agreements, relations between employers and employees. Sociology. Accounts and cost sheets. *II*; (3). Professor STOEK

Prerequisite: Mining 3 or 4 or senior standing and Geology 2.

9. **Preparation of Coal and Ores.**—History, processes, machines; dry coal preparation and coal washing. Breaking, sizing, and concentrating ores. Laboratory practise in coal washing. *I*; (3). Professor HOLBROOK

Prerequisite: Chemistry 5; Physics 3a-3b.

13. **Utilization of Fuels.**—The manufacture, handling, and utilization of wood, charcoal, peat, lignite, bituminous coal, anthracite, coke, petroleum, natural and artificial gas, and refractories in mining and metallurgical practise. *II*; (2). Professor STOEK

Prerequisite: Senior standing.

15. **Principles of Mine Ventilation.**—Mine ventilation, signaling, and lighting, *I*; (1). Mr. ARMS

Prerequisite: Physics 3a-3b; Mining 3 or 4.

17. **Problems.**—Problems, library research, and reports on mining and metallurgical subjects. *I*; (1). Professor STOEK

Prerequisite: Senior standing in mining engineering.

19. **Ore and Coal Preparation.**—Breaking, pulverizing, sizing, classifying, and concentrating ores and mineral products. Wet and dry concentration. Practical limits of ore dressing. Coal preparation. Laboratory practise in ore concentration. *I*; (3). Professor HOLBROOK

Prerequisite: Chemistry 5; Geology 13a and 13b, or equivalent.

21. **Mine Examination and Valuation.**—Methods of examining, valuing, and reporting on mines, mining, and metallurgical plants. Estimation and prospecting of mineral deposits. *I*; (2). Professor STOEK

Prerequisite: Mining 3 or 4, or registration in Mining 3; Geology 13a and 13b, or equivalent.

41. **Principles of Coal Plant Design.**—Design of mine structures of wood, steel, and masonry with drafting practise in design of coal tipples and general surface plant. *I*; (3). Professor STOEK, Mr. ARMS

Prerequisite: Civil Engineering 58, or equivalent.

42. **Coal Plant Design.**—General layout; design; estimates for construction and specifications for coal mining plant. *II*; (2). Professor STOEK, Mr. ARMS

Prerequisite: Mining 41.

43. **Principles of Ore Plant Design.**—Design of mine structures of wood, steel, and masonry, with drafting practise in design of rock houses, ore bins, and crushing plants. *I*; (3). Professor STOEK, Mr. ARMS

Prerequisite: Civil Engineering 58, or equivalent.

44. **Ore Plant Design.**—General layout; design; estimates for construction and specifications for ore mining plants. *II*; (2). Professor STOEK, Mr. ARMS

Prerequisite: Mining 43.

45. **Principles of Mill and Smelter Design.**—Flow sheets and structures of wood, steel, and masonry; drafting practise on individual designs. *I*; (3). Professor STOEK, Mr. ARMS

Prerequisite: Civil Engineering 58 or equivalent.

46. **Mill and Smelter Design.**—Flow sheets; design; estimates for construction, and specifications for concentrating plant or smelter. *II*; (2).
Professor Stoek, Mr. Arms

Prerequisite: Mining 45.

62. **Mine Surveying**—Instruments employed underground and in connecting surface and underground surveys; platting and use of mine maps; mineral land surveying; solar attachments; determination of the meridian. (A surveying trip is made to neighboring mines, of which the estimated cost is $10.) *II*; (3).
Mr. Arms

Prerequisite: Civil Engineering 35.

64. **Coal Mining Laboratory.**—Different coals; their availability for crushing, dry preparation, washing, and briquetting. Complete commercial tests, using small commercial machines wherever possible; design of flow sheets; analysis of products. Estimation of probable costs. *II*; (3). Professor Stoek, Mr. Arms

Prerequisite: Mining 9.

66. **Ore Concentration Laboratory.**—Complete commercial wet and dry concentration tests on raw ores of lead, zinc, iron. Amalgamation and cyanidation of a gold ore. Sampling, preparation, and analysis or assay of the products recovered. *II*; (3). Professor Stoek, Mr. Arms

Prerequisite: Mining 19.

68. **Mine Topography.**—Stadia; application of topographic and railroad surveying to mining conditions. *II*; (1). Mr. Arms

Prerequisite: Civil Engineering 27.

90. **Mining and Metallurgical Reports.**—Review of mining and metallurgical literature; reports; technical writing. *II*; (1). Professor Stoek

Prerequisite: Mining 1 and 4 or Chemistry 7 and 7a.

98. **Thesis.**—Individual investigation of a special mining subject; preparation of thesis giving review of the literature, the results of experimental work, and a general discussion of the subject. *II*; (3).

(Hours arranged when thesis is permitted, in acccordance with regulations of the College of Engineering.)

99. **Inspection Trip.**—*I; (no credit).*

Prerequisite: Senior standing.

Courses for Graduates

Entrance upon graduate work in mining engineering presupposes a full undergraduate course in that subject.

100. **Seminar.**—*Once a week; I, II; (1 unit).* Professor Stoek

101. **Advanced Mining Methods.**—Coal and ore fields of the United States; methods and economics of mining; utilization, marketing, storage, and transportation of coal and ores. *Twice a week; I, II; (1 unit).* Professor Stoek

[102. **Advanced Preparation of Coal and Ores.**—Detailed investigation and discussion of settling ratios; laws of crushing, sorting vs. sizing; specific mill and washing problems. *Twice a week; I, II; (1 unit).* Not given, 1917-18.]

103. **The History of Miners' Organizations.**—The effect of organizations on the development of mining practise. *Twice a week; I, II; (1 unit).* Professor Stoek

104. **Mining Reports.**—The law of the apex; classification of coal and ore lands; conservation of mineral resources; mine examinations and reports. *Twice a week; I, II; (1 unit).* Professor Stoek, Proefssor Holbrook

105. **Welfare Work and Education Among Mine Employees.**—The organization and operation of mining institutes, night classes, welfare, mine rescue and first-aid work. *Twice a week; I, II; (1 unit).* Professor Stoek

MUNICIPAL AND SANITARY ENGINEERING

Arthur Newell Talbot, D.Sc., D.Eng., *Professor*

Melvin Lorenius Enger, M.S., C.E., *Associate Professor, Mechanics and Hydraulics*

Virgil R Fleming, B.S., *Assistant Professor, Applied Mechanics*

2. **Water Supply Engineering.**—Source of supply; hydraulics of wells; stream flow; impounding and storage reservoirs; conduits and pipe lines; pumps and pumping machinery; stand-pipes and elevated tanks; the distribution system; tests and standards of purity of potable water. Designing weekly. *I*; (4).
Associate Professor Enger, Assistant Professor Fleming

Prerequisite: Theoretical and Applied Mechanics 29, 10; Chemistry 1; Mechanical Engineering 1 or 2.

3. **Sewerage.**—Sewerage systems; sanitary necessity; separate and combined water carriage systems; surveys, and general plans; hydraulics; house sewage and its removal; rainfall and storm-water flow; size and capacity of sewers; sewer appurtenances; sewage disposal; estimates and specifications. Designing weekly. *II*; (3). Assistant Professor Fleming

Prerequisite: Theoretical and Applied Mechanics 29, 10; Chemistry 1; Municipal and Sanitary Engineering 2.

6a-6b. **Water Purification, Sewage Disposal, and General Sanitation.**—Impurities in water supplies and their removal; sewage disposal by filtration, chemical precipitation, irrigation; purification plants; garbage; sanitary restrictions and regulations; general sanitation. Lectures; seminar work; drafting. *I*; (3): *II*; (2). Professor Talbot, Associate Professor Enger

Prerequisite: Municipal and Sanitary Engineering 2, 3; Chemistry 1, 3, 10b.

9. **Hydraulic Design and Construction.**—Reservoirs, dams, conduits, and waterways; hydraulic engineering problems. *II*; (2). Associate Professor Enger

Prerequisite: Municipal and Sanitary Engineering 2.

98. **Thesis.**—Investigation or design of an engineering problem. *II*; (2).
Professor Talbot

99. **Inspection Trip.**—*I; (no credit).*

Prerequisite: Senior standing.

Courses for Graduates

Entrance on graduate work in municipal and sanitary engineering presupposes a full undergraduate course in that subject.

102. **Water Supply Engineering.**—Water supply; general waterworks construction; pumps and pumping; reservoirs and elevated tanks; waterworks operation; valuation of plants. *One to three times a week; I or II; (1 unit).*
Professor Talbot

103. **Sewerage.**— Sewerage systems; hydraulics of sewers; run-off. *Once or twice a week; II; (1 unit).* Professor Talbot

106. **Water Purification, Sewage Disposal, and General Sanitation.**—Water purification plants and sewage disposal works; comparison of results and cost of construction and operation; experimental work on water and sewage treatment; garbage; general sanitation. *Once a week; II; (½ unit or more).* Professor Talbot

MUSIC

John Lawrence Erb, F.A.G.O., *Director, University Organist*

George Foss Schwartz, A.M., B.Mus., *Assistant Professor, Theory and History of Music*

Henri Jacobus van den Berg, *Instructor, Piano*

ALBERT AUSTIN HARDING, *Instructor, Wind Instruments, Director of the Band*
EDNA ALMEDA TREAT, B.Mus., *Instructor, Piano and Organ*
EDSON WILFRED MORPHY, *Instructor, Violin*
HEBERT DIGNAM NASMYTH, *Instructor, Voice*
FRANK TAEHAM JOHNSON, *Instructor, Voice*
MABEL GNEVIEVE WRIGHT, A.B., B.Mus., *Instructor, Piano*
OLGA EDITH LEAMAN, *Instructor, Voice*
EDWARD EARLE SWINNEY, A.B., *Instructor, Public School Music*

1-2. History of Music.—*I, II*; (2). Assistant Professor SCHWARTZ
Prerequisite: One year of university work.

3-4. Theory of Music (Harmony).—*I, II*; (2). Assistant Professor SCHWARTZ

5-6. Theory of Music (Harmony).—Continuation of 3-4. *I, II*; (3). Assistant Professor SCHWARTZ
Prerequisite: Music 3-4.

7-8. Counterpoint, Canon, and Fugue.—*I, II*; (3). Assistant Professor SCHWARTZ
Prerequisite: Music 5-6.

9-10. General Theory and Analysis.—*I, II*; (2). Director ERB
Prerequisite: Music 7-8.

11-12. Acoustics.—*I, II*; (1). Director ERB
Prerequisite: Music 3 to 8 inclusive.

13-14. Musical Appreciation.—*I, II*; (1). Director ERB

21a-21b. Ear Training, First Year.—Two hours a week; required of all music students. *I, II; (no credit).* Mr. SWINNEY

22a-22b. Ear Training, Second Year.—Two hours a week, required of students in the curriculum in music in the sophomore year. *I, II*; (1). Mr. SWINNEY

23a-23b. Sight Singing, First Year.—Two hours a week; required of students in the curriculum in music in the sophomore year. *I, II; (no credit).* Mr. SWINNEY

24a-24b. Sight Singing, Second Year.—Two hours a week; required of students in the curriculum in music in the junior year. *I, II*; (1). Mr. SWINNEY

25a-25b. Methods of Teaching.—Elements of theory, eye and ear training, the limitations of the child-voice, selection of material, pedagogical presentations, appreciation work for the high school. (Primarily for students preparing to teach music in the public schools.) *I, II*; (4). Mr. SWINNEY

27a-27b. Ensemble—*I, II*; (1).

28a-28b. Sight Singing, Elementary.—One hour a week for beginners. *I, II*; (*no credit*). Mr. SWINNEY

Piano

Mr. VAN DEN BERG, Miss TREAT, Miss WRIGHT

NOTE: A student enrolled in *piano* is required to take either choral or orchestra; a student absent from choral or orchestra more than three times in a semester, without an excuse acceptable to the Director of the School of Music, receives a failure in his course in *piano*.

41a-41b. Preparatory Course in Piano, First Year.—*I, II*; (*no collegiate credit*).

41c-41d. Preparatory Course in Piano, Second Year.—*I, II*; (*no collegiate credit*).

41e-41f. Preparatory Course in Piano, Third Year.—*I, II*; (*no collegiate credit*).

42a-42b. Piano, First Year.—*I*, *II*; (4).

43a-43b. Piano, Second Year.—*I*, *II*; (4).

44a-44b. Piano, Third Year.—*I*, *II*; (4).

45a-45b. Piano, Fourth Year.—*I*, *II*; (4).

46a-46b, 46c-46d, 46e-46f, 46g-46h. Piano.—Piano taken as a minor by students majoring in voice or violin. *I, II;* (2).

47a-47b, 47c-47d, 47e-47f. Piano.—For students from other departments of the University. *I, II;* (*no credit*, except in the College of Liberal Arts and Sciences under certain conditions).[1]

Voice

Mr. Nasmyth, Mr. Johnson, Miss Leaman

Note: A student enrolled in *voice* is required to take either choral or orchestra; a student absent from choral or orchestra more than three times in a semester, without an excuse acceptable to the Director of the School of Music, receives a failure in his course in *voice*.

51a-51b.—Preparatory Course in Voice, First Year.—*I*, *II*; (*no collegiate credit*).

51c-51d. Preparatory Course in Voice, Second Year.—*I*, *II*; (*no collegiate credit*).

51e-51f. Preparatory Course in Voice, Third Year.—*I*, *II*; (*no collegiate credit*).

52a-52b. Voice, First Year.—*I*, *II*; (4).

53a-53b. Voice, Second Year.—*I*, *II*; (4).

54a-54b. Voice, Third Year.—*I*, *II*; (4).

55a-55b. Voice, Fourth Year.—*I*, *II*; (4).

56a-56b, 56c-56d, 56e-56f, 56g-56h. Voice.—Voice taken as a minor by students majoring in piano or violin. *I*, *II*; (2).

57a-57b, 57c-57d, 57e-57f. Voice.—For students from other departments of the University. *I, II;* (*no credit*, except in the College of Liberal Arts and Sciences under certain conditions).[1]

Violin

Mr. Morphy

Note: A student enrolled in *violin* is required to take either choral or orchestra; a student absent from choral or orchestra more than three times in a semester without an excuse acceptable to the Director of the School of Music, receives a failure in his course in *violin*.

61a-61b. Preparatory Course in Violin, First Year.—*I*, *II*; (*no collegiate credit*).

61c-61d. Preparatory Course in Violin, Second Year.—*I*, *II*; (*no collegiate credit*).

61e-61f.—Preparatory Course in Violin, Third Year.—*I*, *II*; (*no collegiate credit*).

62a-62b. Violin, First Year.—*I*, *II*; (4).

63a-63b. Violin, Second Year.—*I*, *II*; (4).

64a-64b. Violin, Third Year.—*I*, *II*; (4).

65a-65b. Violin, Fourth Year.—*I*, *II*; (4).

66a-66b, 66c-66d, 66e-66f, 66g-66h. Violin.—Violin taken as a minor by students majoring in piano or voice. *I*, *II*; (2).

67a-67b, 67c-67d, 67e-67f. Violin.—For students from other departments of the University. *I, II;* (*no credit*, except in the College of Liberal Arts and Sciences under certain conditions).[1]

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[1] See page 120.

Violoncello

Mr. SCHWARTZ

NOTE: A student enrolled in *violoncello* is required to take either choral or orchestra; a student absent from choral or orchestra more than three times in a semester, without an excuse acceptable to the Director of the School of Music, receives a failure in his course in *violoncello*.

71a-71b. Preparatory Course in Violoncello, First Year.—*I, II*; (*no collegiate credit*).

71c-71d. Preparatory Course in Violoncello, Second Year.—*I, II*; (*no collegiate credit*).

71e-71f. Preparatory Course in Violoncello, Third Year.—*I*; *II*; (*no collegiate credit*).

72a-72b. Violoncello, First Year.—*I, II*; (4).

73a-73b. Violoncello, Second Year.—*I, II*; (4).

74a-74b. Violoncello, Third Year.—*I, II*; (4).

75a-75b. Violoncello, Fourth Year.—*I, II*; (4).

76a-76b, 76c-76d, 76e-76f, 76g-76h. Violoncello.—Violoncello taken as a minor by students majoring in piano, voice, or violin. *I, II*; (2).

77a-77b, 77c-77d, 77e-77f. Violoncello.—For students from other departments of the University. *I, II*; (*no credit*, except in the College of Liberal Arts and Sciences under certain conditions).[1]

Organ

Director ERB, Miss TREAT

NOTE: A student enrolled in organ is required to take either choral or orchestra; a student absent from choral or orchestra more than three times in a semester, without an excuse acceptable to the Director of the School of Music, receives a failure in his course in organ.

Students desiring to take organ will be obliged to pass without conditions the entrance examination in piano. Under no circumstances will they be accepted if their piano work falls below the standard represented by this examination.

81-82. Organ, First Year.—*I, II*; (4).

84-85. Organ, Second Year.—*I, II*; (4).

86-87. Organ, Third Year.—*I, II*; (4).

88-89. Organ, Fourth Year.—*I, II*; (4).

83a-83b, 83c-83d. Organ, Two Years.—First two years' work in organ taken as a minor by students majoring in piano, voice, or violin. *I, II*; (2).

Band, Orchestra, and Ensemble Work

92a-92b. Band Instruments.—*I, II*; (*no credit*). A student enrolled in this course is required to take either choral or orchestra, and if absent from choral or orchestra more than three times a semester, without an excuse acceptable to the Director of the School of the Music, receives a failure in the course.

Mr. HARDING

94a-94b. Recital Course in Practical Music.—(For seniors in Music 45a-45b, 55a-55b, 65a-65b, 88-89.) *I, II*; (1).

96a-96b. Band Instrumentation.—*I, II*; (*no credit*). Mr. HARDING

97a-97b. Band Arranging.—*I, II*; (*no credit*). Mr. HARDING

98a-98b. Band Conducting.—*I, II*; (*no credit*). Mr. HARDING

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[1] See page 120.

Summer Session Courses

S 1. **Musical History.**—From the beginning of music to the Middle Ages. Collateral reference work and note books. (2). Director ERB

Prerequisite: The consent of the instructor.

S 2. **Advanced Harmony.**—Suspensions and modulations; modern harmony; harmonic analysis; keyboard work. (1). Director ERB

Prerequisite: One year of harmony or the equivalent.

S 3. **Harmony.**—Intervals; scales; chord formation up to and including the dominant seventh; harmonization of basses and sopranos; harmonic analysis; keyboard work. (2). Director ERB

Prerequisite: The rudiments of theory.

S 4. **Sight Singing, Advanced Course.**—One, two, three, and four part reading; exercises for breath control, enunciation, and phrasing. (1). Mr. SWINNEY

Prerequisite: Two years of sight singing or the equivalent.

S 5. **Sight Singing, Elementary Course.**—Music notation; scale structure; ear and eye training; solfeggio. (*No credit*). Mr. SWINNEY

Prerequisite: One year of sight singing or the equivalent.

S 6. **Public School Methods.**—The technic of the teaching of public school music; analysis of material. (2). Mr. SWINNEY

Prerequisite: Two years of sight reading and the consent of the instructor.

S 41a-41f. **Preparatory Course in Piano.**—(*No credit.*) Miss TREAT

Prerequisite: The consent of the instructor.

S 42-46. **Piano, Collegiate Grade.**—(1 or 2). Miss TREAT

Prerequisite: Three years of piano study.

S 47. **Piano, Collegiate Grade.**—For students in other schools and colleges of the University. (1). Miss TREAT

Prerequisite: Three years of piano study.

S 51a-51f. **Preparatory Course in Voice.**—(*No credit.*) Mr. NASMYTH

Prerequisite: The consent of the instructor.

S 52-56. **Voice, Collegiate Grade.**—(1 or 2). Mr. NASMYTH

Prerequisite: Three years of vocal study.

S 57. **Voice, Collegiate Grade.**—For students in other schools and colleges of the University. (1). Mr. NASMYTH

Prerequisite: Three years of vocal study.

S 81. **Organ.**—(1). Miss TREAT

Prerequisite: Three years of piano study or the equivalent.

S 82. **Organ.**—For students in other schools and colleges of the University. (1). Miss TREAT

Prerequisite: Three years of piano study or the equivalent.

ORIENTAL LANGUAGES AND LITERATURE

ALBERT TEN EYCK OLMSTEAD, Ph.D., *Professor*

Courses for Advanced Uderngraduates and Graduates

1a-1b.[1] **Elementary Hebrew.**—Grammar and reading. The Book of Genesis. *I, II;* (3).

Prerequisite: Junior standing, including at least sixteen hours of college work in foreign languages.

[10. **Elementary Assyrian.**—Grammar, sign lists, and reading. *I, II*; (3) Not given, 1917-18.

Prerequisite: Oriental Languages 1a and 1b.]

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[1] It is expected that the courses 1a-1b and 10 will be offered in alternate years.

PAGEANTRY

WILLIAM CHAUNCY LANGDON, A.M., *Pageant Master and Lecturer*

1. **History and Technic of Pageantry.**—Lectures; readings; conferences; exercises. *II;* (1). Mr. LANGDON

PALEONTOLOGY

(See GEOLOGY 1a, 16, 18, 19, 20, 21.)

PHILOLOGY

(See CLASSICS, COMPARATIVE PHILOLOGY, ENGLISH LANGUAGE AND LITERATURE, GERMANIC LANGUAGES AND LITERATURE, and ROMANCE LANGUAGES AND LITERATURE.)

PHILOSOPHY

(See also PSYCHOLOGY and EDUCATION.)

ARTHUR HILL DANIELS, Ph.D., *Professor*
BOYD HENRY BODE, Ph.D., *Professor*
QUEEN LOIS SHEPHARD, Ph.D., *Instructor*

Major: Twenty hours from any courses offered by the department, including Philosophy 1, 2, 3, and 4, and one other advanced course. Six hours in psychology may be counted toward a major in philosophy.

Minors: Twenty hours in (a) psychology (at least six additional hours, if psychology is counted toward a major), and one other subject in the following list; or (b) any two subjects in the same group in the following list: (A) economics, history, political science, education, sociology; (B) English, French, German, Greek, Latin; (C) botany, chemistry, mathematics, physics, zoology. No course in any subject of the above groups may be counted for the minor requirement if it is excluded from the major requirement of its respective department.

Courses for Undergraduates

1. **Logic.**—The principles of reasoning; detection of fallacies; evidence. *I* or *II*; (3). Professor BODE, Dr. SHEPHERD

Prerequisite: One year of university work.

2. **Introduction to Philosophy.**—Philosophic problems in their relation to the doctrine of evolution and in their bearing on conduct and religion. *II*; (3). Professor BODE, Dr. SHEPHERD

Prerequisite: Two years of university work.

9. **Political and Social Ethics.**—Moral principles applied to political and social relations. *I*; (3). Professor DANIELS

Prerequisite: Two years of university work.

Courses for Advanced Undergraduates and Graduates

3. **History of Ancient and Medieval Philosophy.**—*I*; (3). Professor DANIELS

Prerequisite: Three hours in philosophy: junior standing.

4. **History of Modern Philosophy.**—From the Renaissance to the present time. *II*; (3). Professor DANIELS

Prerequisite: Three hours in philosophy; junior standing.

7. **Ethics.**—The beginnings and growth of morality; the fundamental questions of ethical theory; social and economic problems of the present. *II*; (3). Professor DANIELS

Prerequisite: Three hours in philosophy: senior standing.

11. Philosophy of Religion.—The philosophical interpretation of religious consciousness. Topics: God, revelation, inspiration, dogma, prayer, faith, immortality, the problem of evil; the relation of morality and religion. *II*; (2). Professor Daniels

Prerequisite: Senior or graduate standing; six hours in psychology or philosophy, or in both.

15. British Philosophers of the Eighteenth Century.—Locke, Berkeley, and Hume. *I*; (3). Professor Bode

Prerequisite: Philosophy 2 or 3 or 4.

16. Philosophy of Pragmatism.—*II*; (3). Professor Bode

Prerequisite: Philosophy 15.

18. Philosophers of the Nineteenth Century.—Philosophical tendencies in materialism, naturalism, idealism, and pragmatism. *I*; (3). Dr. Shepherd

Prerequisite: Philosophy 2 or 3 or 4.

[**19. Rationalism and Religion in the Eighteenth and Nineteenth Centuries.**—*I*; (3). Not given, 1917-18. Dr. Shepherd

Prerequisite: Philosophy 2 or 3 or 4; junior standing.]

Courses for Graduates

Students entering on graduate work in philosophy must have had a thoro course in the history of philosophy, a course in logic, and a general course in psychology.

103. Seminar in Ethics.—British ethics from Hobbes to Sidgwick. *Twice a week; I, II; (1 unit).* Professor Daniels

107a-107b-107c. History of Philosophy.—a: Plato and Aristotle. *Twice a week; (1 unit).* b: Descartes, Spinoza, and Leibnitz. *Twice a week; (1 unit).* c: Kant and Schopenhauer. *Twice a week, (1 unit); I, II.* Professor Daniels

108a-108b-108c. Seminar in Contemporary Philosophy.—a: Idealism. *Twice a week; (1 unit).* b: Realism and pragmatism. *Twice a week; (1 unit).* c: The philosophy of Bergson. *Twice a week; (1 unit). I, II.* Professor Bode

PHOTOGRAPHY

Arthur Grenville Eldredge, *Instructor*

1-2. The Principles and Practise of Photography.—Lenses, cameras; plates and films; exposure; development; printing; copying; positives; landscape, architectural, and scientific photography; speed work, color photography. Lectures; demonstrations; each student is required to produce a stated amount of work covering processes treated. (For advanced students who use photography in connection with their special subjects.) *I, II*; (*Once a week, no credit*). Mr. Eldredge

Prerequisite: Junior standing and the consent of the instructor.

PHYSICAL TRAINING FOR MEN

George A Huff, B.S., *Director*
Harry Lovering Gill, *Associate, Track*
Ralph Jones, *Associate, Basket Ball*
Robert Carl Zuppke, Ph.B., *Associate, Foot Ball*
Roy Newton Fargo, B.S., *Director of the Men's Gymnasium*
Edward John Manley, *Instructor, Swimming*
Samuel E Bilik,[1] *Assistant*

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[1] Resigned.

ARTHUR J SCHUETTNER, *Assistant*
D M BULLOCK, *Assistant*
EUGENE SEITZ, *Assistant, Summer Session*

1-2. **Gymnasium Practise.**—Two hours' gymnasium drill each week. (Required of freshmen. First semester given in conjunction with 1a below.) *I;* (½). *II;* (1). MR. FARGO

1a. **Personal Hygiene.**—Six lectures by the Dean of Men. Required in conjunction with Physical Training 1. *I;* (*First six weeks*) DEAN CLARK

3. **Elementary and Intermediate Gymnastics on Heavy Apparatus.**—Preparation of men for teaching physical training. Three exercises a week. *I;* (1).

Prerequisite: Physical Training 1-2 and the consent of the instructor.

4. **Advanced Physical Training.**—(Continuation of course 3.) Three exercises a week, *II;* (1).

Prerequisite: Physical Training 3 and the consent of the instructor.

Summer Session Courses

A. ATHLETIC COACHING

NOTE: Courses in Physical Training for men continue through only 6 weeks.

S 10. **Baseball.**—Batting; base running; fielding each position; team work and coaching; rules; physical condition; indoor practise. Lectures; practical work. (1½) DIRECTOR HUFF

S 11. **Track and Field Athletics.**—Starting, sprinting, distance running, hurdling, high and broad jumping, pole vaulting, shot putting, hammer throw, and discus; preparing contestants for events; individual peculiarities; rules; physical condition; promotion, management, and officiating of games and meets. Lectures, practical work. (1½). MR. GILL

S 12. **Basketball.**—Coaching; passing; goal throwing; dribbling; team play; condition; the different styles of play used by leading coaches. Lectures; practical work. (1½). MR. JONES

S 13. **Football.**—Rules; offense and defense; generalship and strategy. Training; conditioning; equipment; kicking, forward passing; tackling dummy and charging sled; drills for linemen, ends, and backs; following the ball, interference, team work; fundamental plays, freak plays, signal systems. Lectures; practical work. (1½). MR. ZUPPKE

S 14. **Training.**—Training, massage, treatment of sprains, bruises; bandaging and first aid. Lectures; practical work. (½). MR. BILIK

B. GYMNASTICS

S 15. **Calisthenics.**—Corrective and responsive work; wands, Indian clubs, and dumbbells. Imitation and command, hygienic work; large classes. Practise teaching. (⅓). MR. FARGO

S 17. **Elementary Gymnastics; Heavy Apparatus.**—Heavy apparatus, mats, horse, horizontal bar, rings, parallel bars. (½) MR. FARGO

S 18. **Intermediate Heavy Gymnastics.**—(½). MR. FARGO

S 19. **Advanced Gymnastics; Heavy Apparatus.**—Heavy apparatus; nomenclature; skill, form, and accuracy. (½). MR. FARGO

S 21. **Gymnastic Dancing for Men.**—Elements of steps, simple steps, and series of dancing steps to be given to classes in single file, pairs, and in open order. (½). MR. SEITZ

S 23. **School Room Gymnastics.**—Exercise for elementary grades and high school. (⅓). Mr. Seitz

S 24. **Anthropometry.**—Physical measurements; sources of information; preparation of statistics. (*No credit.*) Mr. Seitz

S 25. **Physical Examination.**—Methods of detecting physical defects of the interior organs as well as exterior form and action; examination of heart and lungs. (*No credit*). Mr. Seitz

PHYSICAL TRAINING FOR WOMEN

Louise Freer, A.B., B.S., *Director*
Verna Brooks, A.B., *Instructor*
Nellie Eileen Bussell, A.B., *Instructor*
Anna Lue Hughitt, *Instructor*
Caroline Ruth Morris, A.B., *Assistant*
Rosa-Lee Gaut,[1] B.Mus., *Assistant*
Gladys Lovewell, *Assistant*
Eunice Badger, *Student Assistant*

7a-7b. Practise.—Class work; light gymnastics; gymnastic dancing; games; personal hygiene; corrective work. (Required of freshmen.) *I, II;* (1).
Miss Freer, Miss Brooks, Miss Hughitt, Miss Morris, Miss Bussell

8a-8b. Practise.—(Continuation of 7a-7b. Second year, elective.) *I, II;* (1).
Miss Brooks, Miss Hughitt, Miss Morris, Miss Bussell

Prerequisite. Physical Training 7a-7b.

9. Hygiene.—(Required of freshmen.) *I;* (1). Dean Gates

10a-10b. Teachers' Course.—(Third year.) Theory and practise; practise teaching in the gymnasium and in public schools. Lectures and outside reading. *Two hours a week.* *I, II;* (1). Miss Bussell

Prerequisite: One year of gymnasium work, and psychology, or education; registration in Physical Training 7 or 8.

11a-11b. Teachers' Course.—(Fourth year.) Massage, theory and practise; emergencies (including bandaging); anthropometry, practise work in measurements for physical examinations. *I, II.* Miss Hughitt

Prerequisite: Physical Training 10.

12a-12b. Esthetic and Interpretative Dancing.—Exercises in technic. *I, II.*
Miss Brooks

Prerequisite: Physical Training 7a-7b.

13a-13b. Advanced Esthetic and Interpretative Dancing.—Technic; pantomime. *I, II.* Miss Hughitt

Prerequisite: 8a-8b, 12a-12b.

Summer Session Courses

Miss Moulton and Miss Bahe

S 1. **Plays, Games and Folk-Dances.**—Ball games; folkdances and singing games. Lectures; practise. (1). Miss Moulton

S 2. **School Hygiene and Sanitation.**—(½). Miss Moulton

S 3. **Gymnastics.**—Swedish and German systems; elementary gymnastic steps. (½). Miss Moulton

S 4. **Esthetic Dances.**—Technic; advanced folk-dancing. (¼).
Miss Moulton

S 5. **Swimming.**—Instruction in small groups. (*No credit.*) Miss Bahe

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[1] Resigned, December, 1917.

PHYSICS

Albert Pruden Carman, D.Sc., *Professor; Head of the Department*
Charles Tobias Knipp, Ph.D., *Professor, Experimental Electricity*
Floyd Rowe Watson, Ph.D., *Professor, Experimental Physics*
Jakob Kunz, Ph.D., *Associate Professor, Mathematical Physics*
William Frederick Schulz, Ph.D., *Assistant Professor*
Elmer Howard Williams, Ph.D., *Associate*
Sebastian Karrer, A.M., *Instructor*
Earle Horace Warner, A.M., *Instructor*
Charles Francis Hill, A.M., *Assistant*
Carl Eli Pike, B.S., *Assistant*
Roy Andrew Nelson, B.S., *Assistant*
Bird Richard Stephenson, A.M., *Assistant*
Eleanor Frances Seiler, A.M., *Assistant*
Edward Courtland Fritts, B.S., *Assistant*

Physics 7a-7b and 8a-8b are recommended to students not specializing in mathematics, chemistry, or engineering. For undergraduate students taking advanced work or a major in physics, the following outline of work is suggested:

Freshman year: Trigonometry (Math. 4) and Chemistry. Sophomore year: Physics 1a-1b, 3a-3b, or Physics 7a-7b, 8a-8b. Junior year: Physics 15, 16, 17, 23, or 24. Senior year: Physics 4a-4b, 14a-14b, 20, 22, 25, 30, or 31.

Introductory Courses for Undergraduates

1a-1b. General Physics.—Lectures with class-room demonstration; recitations; written exercises. (For sophomores in engineering, mathematics, physics and chemistry.) *I*; (3): *II*; (2). Professor Carman, Assistant Professor Schulz, Mr. Warner, Mr. Stephenson, Mr. Pike, Mr. Nelson

Prerequisite: Registration in Physics 3a-3b; freshman mathematics.

3a-3b. Physical Measurements.—Laboratory experiments; quizzes in connection with Physics 1a-1b. *I, II*; (2). Assistant Professor Schulz, Mr. Warner, Mr. Stephenson, Mr Pike, Mr. Nelson

Prerequisite: Physics 1a-1b or registration therein.

7a-7b. General Physics.—Lectures; class-room demonstrations; recitations. (For students in arts and science.) *I, II*; (2½).
Professor Watson, Dr. Williams, Mr. Hill, Miss Seiler

Prerequisite: Mathematics 4, or registration therein; registration in Physics 8a-8b.

8a-8b. Introductory Laboratory Physics.—Physical measurements. *I, II*; (½).
Dr. Williams, Mr. Hill, Miss Seiler

Prerequisite: Registration in Physics 7a-7b.

9a-9b. General Physics.—Lectures; class-room demonstrations; recitations. (For students in architecture.) *I, II*; (2).
Professor Watson, Dr. Williams, Mr. Hill, Miss Seiler

Prerequisite: Mathematics 4; registration in Physics 10a-10b.

10a-10b. Introductory Laboratory Physics.—Physical measurements. *I, II*; (2).
Dr. Williams, Mr. Hill, Miss Seiler

Prerequisite: Registration in Physics 9a-9b.

Intermediate Courses

15. Electricity and Magnetism.—For students in non-technical courses who wish a knowledge of electricity and magnetism beyond the course in general physics.

Two recitations or lectures and one three-hour laboratory exercise weekly. Brooks and Poyser: *Electricity and Magnetism. I;* (3). Professor KNIPP

Prerequisite: Physics 1a-1b, 3a-3b, or 7a-7b, 8a-8b.

16. **Heat.**—Heat phenomena; mechanical theory of heat; thermodynamics. Laboratory experiments in thermometry, calorimetry, vapor pressure, expansion of bodies, transmission of heat, and mechanical equivalent, and method of measurement of high temperatures. *I*; (3). Professor WATSON, Mr. FRITTS

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

17. **Light.**—Reflection, refraction, interference, diffraction, and polarization; optical instruments; lectures and laboratory. (For students in general physics, but also adapted to those who wish to learn the use of optical instruments.) Houstoun: *Treatise on Practical Light. II;* (3). Assistant Professor SCHULZ, Mr. WARNER

Prerequisite: Physics 1a-1b; 3a-3b; or 7a-7b.

[18. **Teachers' Course.**—Text-books, reference books, laboratory manuals, apparatus ordering, and methods of conducting work. Manipulative work with glass and apparatus. Selected topics in advanced general physics. *II*; (3). Not given, 1917-18.

Prerequisite: A course in general physics, or experience in teaching.]

Courses for Undergraduates and Graduates

4a-4b. Electrical and Magnetic Measurements.—First semester: measuring very high and very low resistances; aperiodic and ballistic; galvanometers; electric currents and quantity; capacities. Second semester: absolute determination of capacity; the damping factor of a ballistic galvanometer; circuits containing resistance and self-induction; measurement of self and mutual induction; magnetic properties of iron; plotting of curves; hysteresis losses. Potentiometers. *I, II*; (2). Professor KNIPP, Mr. KARRER

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b; Mathematics 7, 9.

14a. Introduction to Theoretical Physics.—Motion, mass, and force. (For the student of general science as well as for students of physics and mathematics.) Recitations; problems; lectures. Jean: *Theoretical Mechanics. I;* (3). Professor CARMAN

Prerequisite: Physics 1a-1b, 3a-3b, or 7a-7b, 8a-8b; Mathematics 8 or 7 and 9.

20. Light.—Special phenomena; modern theories; readings in texts of Drude, Wood, and Preston. Lectures; recitations. *I*, (2). Assistant Professor SCHULZ

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b; Mathematics 7 and 9, or 8.

22. Advanced Light Measurements.—Wavelength determinations with gratings, echelons, and interferometers, spectroscopic work, Zeeman effect, polarimetric analysis, resolving power of instruments, photometry and spectrophotometry. *I*; (2 to 5).[1] Assistant Professor SCHULZ, Mr. WARNER

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

23. Sound.—Origin, propagation, velocity, interference, and diffraction; vibrations of strings and organ pipes; music and speech. Lectures, recitations, laboratory. *II*; (3). Professor WATSON, Mr. FRITTS

Prerequisite: Physics 1a-1b, 3a-3b; or 7a-7b, 8a-8b.

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or 4, or *5*.

24. Properties of Matter.—Gravitation, elasticity, capillarity, and other general properties of matter. Poynting and Thomson: *Properties of Matter.* Recitations; lectures. *II;* (2). Dr. Williams

Prerequisite: Physics 1 and 3. or 7 and 8; Mathematics 7 and 9, or 8.

27. Fundamental Physical Measurements.—Measurements of length, mass, time, and of determinations of gravitation, elasticity, surface tension, viscosity. Laboratory. *II*; (1). Dr. Williams

Prerequisite: Course in general physics.

30. Introduction to Theoretical Electricity.—Electrical and magnetic phenomena discussed with calculus methods. Magnetism, electrostatics, electrolysis, thermoelectricity, electromagnetics, varying currents, alternating currents, units, electromagnetic radiation. conduction through gases, radioactivity, electrons. (For advanced students in physics, chemistry, mathematics, and engineering.) Lectures; recitations; demonstrations. Starling: *Electricity and Magnetism.* *II;* (3). Professor Knipp

31a-31b. Special Problems in Advanced Physical Measurements.—*I, II*; (2 or 3).[1] Professor Carman, Professor Knipp, Professor Watson, Assistant Professor Schulz, Dr. Williams

Courses for Graduates

The prerequisite for graduate work in physics is a college course in general physics with a year's laboratory course in introductory physical measurements. The student who is to do major work in physics should also have had additional courses in physics or teaching experience, unless the training in his minor subjects, mathematics or chemistry, has been strong and complete. He should also have a knowledge of French and German sufficient to use references in these languages. The courses named below are those open for candidates for the Master's or Doctor's degree. A large part of the last year's work of the candidate for the Doctor's degree is investigational in either experimental or theoretical physics. In addition to these major graduate courses, the courses in elementary dynamics, heat, light, electrical measurements, and introductory electrical theory are arranged with certain additions for graduate credit. The "intermediate" courses on heat, light and electricity and magnetism (Physics 15, 16, 17, 24), may be offered by students making a minor in physics, and with certain limitations by students in their first year of graduate work for major credit.

104a-104b. Selected Problems in Electrical Measurements.—First Semester: very high and very low resistances; galvanometers; damping factor and critical damping resistance; electric current and quality; capacities; absolute determination of capacity; Dolezalek quadrant electrometer; dielectric constants; the measurement of v and e/m for cathode rays; positive electricity; potentiometer. Second semester: properties of iron, hysteresis curves and losses. Recommended for graduate students in chemistry. *I, II;* (*¾ unit*). Professor Knipp

121. Recent Advances in Physics and the Electron Theory.—Occurrence of electrons; properties; gaseousion; determination of e/m and v of the electron and of the ion; positive rays in gas analysis; color effects of electrons, of ions, and of retrograde rays in residual hydrogen, helium, neon, and argon; determination of the elementary charge of the electron by the fog method, by radioactivity. *II*; (*¼ unit.*) Professor Knipp

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123. Sound.—Wave motion; forced vibrations; velocity and energy relations of sound waves; resonance; vibrations of strings and organ pipes. *Three times a week; II; (¾ unit).* Professor Watson

124. Conduction of Electricity Through Gases.—Discharge phenomena. In the second semester an original problem is assigned. Laboratory, collateral reading; discussion. *Three times a week; I, II; (1 to 2 units).* Associate Professor Knipp

126. Physics Colloquium.—Weekly meetings of the instructors and advanced students of the department for the presentation and discussion of papers on current problems in physics. Attendance is expected of all graduate students. *Once a week; I, II; (no credit).*

127a. Problems of Present Theoretical Investigations in Physics.—Fundamental laws of nature; least action; equipartition of energy; entropy and probability; laws of radiation; the energy quantum. *I, II; (½ unit).*

Associate Professor Kunz

[**127b. Electron Theory.**—(Seminar.) The Zeeman and corresponding phenomena; electro and magneto-optics; spectra; dispersion; photoelectricity; phosphorescence; chemical action of light and electrons; metals and magnetism; the atom. (Of special interest to students in chemistry and general science.) *Twice a week; II; (1 unit).* Not given, 1917-18.]

131. Investigation of Special Problems.—Advanced laboratory or design and calculation. A problem worked out with the advice and direction of the instructor. *Two to four times a week; I, II; (1 to 2 units).* Professor Carman, Professor Knipp, Professor Watson, Associate Professor Kunz, Assistant Professor Schulz, Dr. Williams

132. Mathematical Physics.—Special phases of theoretical physics.

(a). **Dynamics.**—Newton's equations, general methods of integration, potential-theory, potential of the ellipsoid, celestial mechanics, least constraint, virtual work; D'Alembert's and Hamilton's principles; special problems of hydrodynamics and of electricity. *Three times a week; I, II; (1 unit).* Associate Professor Kunz

Note.—Either 132a or 132e will be given in 1917-18, after consultation with students.

[(b). **Electrodynamics.**—The potential theory; electrical and magnetic polarization; spherical harmonics; images and inversion; conjugate functions; elliptic coordinates and integrals; magnetic actions of currents; coefficients of capacity; self and mutual induction; absolute measurements; Maxwell's theory; optics. Lectures; collateral reading. *Four times a week; I, II; (1 unit).* Not given, 1917-18.]

[(c). **Thermodynamics and Kinetic Theory of Matter.**—The two fundamental principles; chemical equilibrium; the Nernst theorem; the direct method of Carnot's cycle; thermodynamic potentials and the derived functions; Maxwell's theory of velocities in a gas; Boltzman's H theory; radiation; Planck's theory of quanta. *I, II; (1 to 2 units).* Not given, 1917-18.]

(d). **Theory of Electrical Oscillations, Spherical and Cylindrical Harmonies.**—The differential equation of diffusion of electricity, heat, and matter; transatlantic cable. Electrical oscillations along wires, long distance telephony, Hertz vibrations; antennae vibrations, propagation of electrical waves, reflection and diffraction of electrical waves; spherical and cylindrical harmonics. *I, II; (1 unit).*

Associate Professor Kunz

(e). **Theory of Elasticity.**—Special problems of oscillations; vibrations of membranes, bars, and plates. Elasticity. *I, II; (1 unit.)* Associate Professor Kunz

Note.—Either 132a or 132e will be given in 1917-18, after consultation with students.

133. Seminar.—*Three or five times a week; I, II; (1 to 3 units).* Professor Carman, Professor Knipp, Professor Watson, Associate Professor Kunz, Assistant Professor Schulz

Summer Session Courses

S 7 I. General Physics, Part I.—Mechanics; motion; forces and their effects; equilibrium. (1½). Associate Professor Watson, Mr. Nelson

Prerequisite: Plane geometry and high-school algebra; registration in Physics S 8 I. Plane trigonometry desired.

S 8 I. Introductory Laboratory Physics, Part I.—Physical measurements on mechanics, properties of matter, to accompany S 7 I. (1½). Mr. Hyslop, Mr. Nelson

Prerequisite: Registration in Physics S 7 I.

S 7 II. General Physics, Part II.—Electricity and magnetism. (1½). Dr. Hornbeck, Mr. Nelson

Prerequisite: See S 7 I.

S 8 II. Introductory Laboratory Physics, Part II.—Laboratory to accompany S 7 II. (1½). Mr. Fazel, Mr. Nelson

Prerequisite: Registration in S 7 II.

S 4. Electrical and Magnetic Measurements.—Discussions; recitations; reports. (2). Mr. Fazel

Prerequisite: A course in general physics and calculus.

S 15. Electricity and Magnetism.—Lectures; recitations; laboratory. (1½). Mr. Fazel

Prerequisite: A course in general physics.

S 16. Heat.—Fundamental heat phenomena; thermometry; calorimetry; expansion; vapor pressure. (1½). Mr. Booth

Prerequisite: A course in general physics.

S 17. Light.—Reflection; refraction; interference; diffraction and polarization. Theory and use of telescopes, microscopes, refractometers, prism and grating spectroscopes, interferometers. (1½). Dr. Hornbeck

Prerequisite: A course in general physics.

S 18. Teachers' Course.—Methods of organizing laboratory work; quizzes; demonstrations, criticisms of high-school text-books; selecting and ordering apparatus. Practical laboratory manipulation; glass blowing, minor repairs of apparatus, preparation of direction sheets. (1). Mr. Hyslop

Prerequisite: A course in general physics, or teaching experience in physics.

S 19. Advanced General Physics.—Selected topics for teachers. (1½). Associate Professor Watson

Prerequisite: A course in general physics; trigonometry.

S 21. Recent Advances in Physics.—Lectures. (1).

S 31. Special Problems in Advanced Physical Measurements.—(1 or 2).[1] Associate Professor Watson, Dr. Hornbeck

Prerequisite: A course in general physics; calculus.

S 126. Physics Colloquium.—For description, see course 126. Associate Professor Watson, Mr. Hyslop

S 131. Investigation of Special Problems.— Associate Professor Watson

S 133. Seminar and Thesis.— Associate Professor Watson

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PHYSIOLOGY

William Edward Burge, Ph.D., *Assistant Professor*
Alma Jessie Neill, A.M., *Assistant*
Richard Ashman, B.Litt., *Assistant*

Major: 20 hours made up of any courses offered in the department exclusive of Physiology 4.

Minors: 20 hours in bacteriology, botany, chemistry and zoology.

1. **Histology.**—Miscroscopy of the fundamental mammalian tissues. *I*; (3). Assistant Professor Burge, Mr. Ashman

Prerequisite: Two years of university work.

2. **Advanced Experimental Physiology.**—Circulation, respiration, secretion, digestion, and metabolism. Lectures. *II*; (5). Assistant Professor Burge, Miss Neill, Mr. Ashman

Prerequisite. Physiology 3.

3. **Elementary Experimental Physiology.**—Nerve and muscle. Lectures; demonstrations; laboratory. *I*; (2). Assistant Professor Burge, Mr. Ashman

Prerequisite: Two years of university work.

4. **General Physiology, Chemical and Experimental.**—Lectures; demonstrations; recitations; laboratory. *I* or *II*; (5). Assistant Professor Burge, Miss Neill, Mr. Ashman

Prerequisite: One year of university work including five hours in botany or zoology, and five hours in chemistry.

5. **Physiology of Nutrition.**—Utilization of food material by the body in health under various conditions and in disease. Lectures; demonstrations. *II*; (2). Assistant Professor Burge

Prerequisite: Physiology 4 or equivalent.

6. **Physiology of the Nervous System.**—The function of the principal motor and sensory tracts of the mammal. *I*; (3). Assistant Professor Burge, Miss Neill

Prerequisite: Two years of university work.

7. **Investigation.**—*I* or *II*; (5). Assistant Professor Burge

8. **Histology.**—Miscroscopic anatomy of the organs. Lectures; laboratory. *II*; (3). Assistant Professor Burge, Mr. Ashman

Prerequisite: Physiology 1.

Courses for Graduates

100. **Physiology of Secretion and Excretion.**—Collecting the various secretions of mammals; factors controlling the flow of these juices. *Once a week. I; (¾ unit).* Assistant Professor Burge

101. **Journal Club.**—Review of literature; discussion of investigation being carried on in the department. *Once a week; I, II; (¼ unit).* Members of the staff

102. **Research.**—*Three times a week; I, II; (1 or 2 units).* Assistant Professor Burge

POLITICAL SCIENCE

(See also Economics, History, and Sociology.)

James Wilford Garner, Ph.D., *Professor*
John Archibald Fairlie, Ph.D., *Professor*
John Mabry Mathews, Ph.D., *Associate Professor*
Russell McCulloch Story,[1] Ph.D., *Associate*

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[1] On leave.

ROBERT EUGENE CUSHMAN, Ph.D., *Instructor*
EDWIN ANDERS, A.B., *Assistant*
EDWIN DEWITT DICKINSON, A.M., *Assistant Professor of Political Science, Dartmouth College. (Summer Session.) (Appointed through cooperation with the Carnegie Endowment for International Peace)*

Major: Twenty hours from any courses offered by the department. A major may include three hours of constitutional history (History 4 and 14)

Minors: Twenty hours, selected from two of the following subjects: history, economics, law, sociology, philosophy, and education

Courses for Undergraduates

NOTE.—Courses 1 and 3 give a survey of national, state, and local government in the United States, and should be taken by students specializing in political science. Course 1a is open only to students in the colleges of Engineering and Agriculture who desire an introductory course in American Government.

1. **American National Government.**—Historical development, organization, powers, limitations, and practical working of the national government of the United States. *I*; (3). Professor GARNER, Associate Professor MATHEWS, Dr. CUSHMAN

Prerequisite: Thirty hours of university work.

3. **State and Local Government.**—Powers, obligations, and rights of the states in the Federal Union; formation and admission of states; development of state constitutions; organization of state and local government; political methods. (A continuation of Political Science 1; may be taken independently.) *II*; (3).
Professor GARNER, Associate Professor MATHEWS, Dr. CUSHMAN

Prerequisite: Thirty hours of university work.

NOTE.—Students may not take both 3 and 16 for more than a total of four hours' credit.

1a. **American Government and Politics.**—National, state, and local government. (Open only to students in the Colleges of Engineering and Agriculture.) *I*; (2). Dr. CUSHMAN

Prerequisite: Thirty hours of university work. No credit is allowed for this course if the student takes course 1 or 3.

16. **Government in Illinois.**—The commonwealth and the nation; constitutional development; organs of state government and their work; organization of the local governments and their functions; popular control in public affairs; contemporaneous problems. *II*; (2). Professor FAIRLIE in charge

Prerequisite: Thirty hours of university work.

NOTE.—Students may not take both 3 and 16 for more than a total of four hours' credit.

Courses for Advanced Undergraduates and Graduates

NOTE.—Junior standing is required for admission to the following courses:

4. **Municipal Government.**—Growth of cities; legal and social status; organization in the United States, including mayor and council, commission, and city manager plans; organization abroad; municipal functions. *I*; (3). Professor FAIRLIE

Prerequisite: Senior standing, or junior standing and one of the following: (1) three hours in either political science or sociology; (2) five hours in either economics or history; (3) major work in civil or in municipal and sanitary engineering.

5. **Constitutional Law of the United States.**—The judicial interpretation of the constitution. Judicial power to declare laws unconstitutional; separation of gov-

ernmental powers; relation of state and national governments; national taxation; control of interstate commerce; protection of civil and political rights (due process of law); jurisdiction of the courts. *I*; (3). Dr. Cushman

Prerequisite: Political Science 1; junior standing.

6. **International Law.**—Development, nature, source, and present status; intervention; laws of war and peace; rights and duties of neutrals; arbitration. Lectures; assigned readings; reports. *I*; (3). Professor Garner

Prerequisite: Graduate or senior standing, or junior standing with six hours of history and five hours of political science.

7. **American Diplomacy.**—The Department of State; the diplomatic service; the treaty making power; the foreign policy of the United States; diplomatic controversies with foreign powers; the United States as a world power. *II*; (3). Associate Professor Mathews

Prerequisite: Political Science 1 or History 3a-3b; junior standing.

9. **Principles of Jurisprudence.**—The nature and sources of law; the Roman and English legal systems; English law in the United States; classification of law. *II*; (2). Professor Fairlie

Prerequisite: Political Science 1 or its equivalent; junior standing.

11. **Constitutional Aspects of Social and Industrial Problems.**—The police power; legislation concerning public health, order, and safety; constitutionality of labor legislation; control of combinations of capital; regulation of public service companies. *II*; (3). Dr. Cushman

Prerequisite: Six hours of political science or economics; junior standing.

12. **National Administration in the United States.**—Administrative powers of the President and Congress; administrative organization; the President's cabinet, the executive departments, boards and commissions, and administrative services of the national government; judicial administration and the relation of the courts to the executive authorities. *II*; (3). Professor Fairlie

Prerequisite: Political Science 1; junior standing.

13. **State Administration in the United States.**—Organization and methods of the executive departments of the state governments; the governor, heads of administrative departments, boards and commissions, and the civil service. Centralization in taxation, education, and the enforcement of state law. *I*; (3). Associate Professor Mathews

Prerequisite: Political Science 3 or its equivalent; junior standing.

14. **Political Parties and Methods.**—Political parties and political methods, primarily in the United States; recent legislation on primary elections and corrupt practises; the party system. *I*; (2). Professor Fairlie

Prerequisite: One course in political science; junior standing.

[18. **Legislation in the United States.**—Nature of the legislative power; constitutional limitations; organization, rules of procedure and practise of American legislative bodies; bill drafting; reference bureaus; criticism of bills and discussion of principles of legislation. *II*; (3). Not given, 1917-18.

Prerequisite: Six hours of political science; junior standing.]

21. **British Government.**—Political institutions in the United Kingdom and the British dominions; the Crown, the Cabinet, the House of Commons, and the House of Lords; the party system: the courts of law; local government; the crown colonies and the self-governing dominions; recent developments and proposed changes. *I*; (2). Professor Fairlie

Prerequisite: Graduate or senior standing, or junior standing with six hours of political science.

[21a. **Problems in British Government.**—(Supplemental to Political Science 21). Special reports and conferences. *I*; (1). Not given, 1917-18. Professor Fairlie

Prerequisite: Registration in Political Science 21.]

22. **Continental European Governments.**—France, Germany, Austria-Hungary, Italy, and Switzerland; constitutional beginnings; political organizations; legislation and administration; constitutional guaranties for the protection of individual rights. *II*; (3). Professor Garner

Prerequisite: Open to graduate students and seniors, who have had six hours in political science. History 20a-20b and Political Science 21 recommended.

[28. **Problems of Contemporaneous Politics.**—Reorganization of state government; state socialism; foreign and colonial policies; parliamentary government; direct popular government. *I*; (2). Not given, 1917-18.

Prerequisite: Senior standing, or junior standing and one course in political science.]

34. **Municipal Problems.**—Municipal administration in the United States and Europe; organization; city planning and housing; public utilities; police and sanitary administration; municipal finances. Lectures; readings; special reports. *II*; (3). Professor Fairlie

Prerequisite: Open to graduate students, and to undergraduate students who have had Political Science 4, or Economics 1, or who have senior standing in the curriculum in municipal or highway engineering.

35. **Legal Problems of the City.**—Legal status of the city; powers in police regulations, taxation, special assessments, streets, public utilities, and city planning; municipal contracts and liabilities. Given in 1917-18, and in alternate years. *II*; (2). Dr. Cushman

Prerequisite: Senior standing, or junior standing and one course in political science or major work in municipal and sanitary engineering.

36a-36b. **Thesis Course.**—Research work for candidates for honors and other seniors. *I, II*; (2).

Courses for Graduates

101. **History of Political Theories.**—Ancient, medieval, and modern political thought; political theories of Aristotle, Plato, Machiavelli, Hobbes, Locke, Montesquieu, and others. American political philosophy. *Twice a week; I; (1 unit).* Professor Garner

[102. **The Nature of the State.**—Principles, methods, and nature of political science; origin, attributes, forms, and functions of the state; sovereignty and liberty; citizenship and nationality; constitutions, their nature and forms; legislative, executive, and judicial organization. Alternates with course 101. *Twice a week; I; (1 unit).* Professor Garner

103. **Seminar in Political Science and Public Law.**—Special problems; reports; discussions and criticism. The research work of candidates who are writing theses is under the direction of some instructor to whom they report frequently. *Once a week; I, II.* Members of the department

106. **International Law as Applied During the European War.**—Causes of the war; treatment of alien enemies; contraband; blockades; transfers of flag; reprisals; military government of occupied territory, contributions and requisitions, rights and duties of neutrals. *Twice a week; II; (1 unit).* Professor Garner

[112. **Studies in Public Administration.**—Special topics in comparative national or local administration. *Twice a week; I; (1 unit).* Not given, 1917-18. Professor Fairlie]

113. State Government and Administration.—Organization and methods of state governments in formulating and executing public policies; investigation of problems. Different topics in succeeding years. *Twice a week; II; (1 unit).*
Associate Professor Mathews

Summer Session Courses

S 3. State and Local Government.—Powers, obligations, and rights of the states in the Federal Union; state constitutions; organization of state and local government; political methods. (2½). Mr. Cushman

Prerequisite: Thirty hours of university work or the consent of the instructor.

S 11. Constitutional Aspects of Social and Economic Problems.—The police power; the police power of the national government; legislation concerning public health, morals, and safety; labor legislation, control of combinations of capital; public service companies. (2½). Mr. Cushman

Prerequisite: Six hours of political science or economics, or the consent of the instructor.

S 6. International Law.—Nature and sources; sanctions; international persons; rights and duties of international persons in time of peace and as modified by war and neutrality. (2½). Assistant Professor Dickinson

Prerequisite: At least junior standing, with six hours of history or political science, or the consent of the instructor.

S 7. International Politics.—Conflict of national interests and policies in the Near East, the Far East, Africa, and Latin America; methods of conducting foreign relations; growth of international organization. (2½).
Assistant Professor Dickinson

Prerequisite: At least junior standing with six hours of history or political science, or the consent of the instructor.

PSYCHOLOGY

Madison Bentley,[1] Ph.D., *Professor*
Christian Alban Ruckmich, Ph.D., *Assistant Professor*
Carl Rahn, Ph.D., *Instructor*
Coleman Roberts Griffith, A.B., *Assistant*
Myron Arthur Myers, B.S., *Assistant*
Frances J Perkins, *Student Assistant*

Major: Twenty hours chosen from courses announced by the department, except that six hours may be chosen from one or more of the following subjects: Philosophy 1, 2, 3, 4; Physics 1a-1b, 3a-3b, 7a-7b; Zoology 2, 5, 9, 15; and Animal Husbandry 30.

Minors: Twenty hours chosen from education, genetics, philosophy, physics, physiology, sociology, and zoology.

Laboratories

The departmental laboratories occupy twenty rooms in University Hall. They make provision for research, undergraduate instruction in drill-courses, demonstrations in the lecture-room, the testing of mental capacity and of mental defect, and the study of the animal mind. Besides standard equipment in all branches, the laboratories contain special apparatus for spectroscopic and chronographic methods and for the investigation of memory and association. Provision is made for research in psychological optics and acoustics. The work-shop, which is in charge of a skilled mechanician, is equipped for the construction of delicate apparatus and of instruments of precision. The departmental library contains complete files of foreign and American journals and a working collection for experimental and historical study. The history of the science and of its antecedents in physiognomy, phrenology, and anthropology is further provided for in the departmental museum, which contains a large collection of casts, portraits, documents, and other objects of human and of psychological interest.

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[1] On leave for military service.

1. **Introduction to Psychology.**—The facts and laws of mind. Sensation and image, attention, memory, emotion, action, and thought. Lectures; demonstration of experimental methods; sectional meetings. *I*; (3). Professor BENTLEY, Assistant Professor RUCKMICH, Dr. RAHN, and assistants

Prerequisite: One year of university work.

2. **General Psychology.**—Mental inheritance, habit, custom, and fashion; relations of psychology to the biological and social sciences; comparative and genetic psychology, the abnormal; applications of psychology to the arts and professions. *II*; (3). Assistant Professor RUCKMICH and assistants

Prerequisite: Psychology 1.

3. **Laboratory Practise (Elementary).**—Classical experiments in the fields of sensation, feeling, attention, and action. *I* or *II*; (2).
Assistant Professor RUCKMICH, Dr. RAHN, and assistants

Prerequisite: Psychology 1.

5. **Comparative Psychology.**—Mind in animal forms; organic evolution; human and animal minds; criticism of current literature. (Recommended to students who intend to elect advanced courses in animal psychology or in behavior.) Lectures; laboratory. *I*; (2). Professor BENTLEY, Dr. RAHN, and assistants

Prerequisite: Psychology 1.

6. **Comparative Psychology (Advanced Laboratory).**—Individual studies in animal psychology. *II*; (2-4).[1] Professor BENTLEY, Dr. RAHN

Prerequisite: Psychology 1 and 5.

9. **Physiological Psychology.**—The structure and functions of the nervous system and the phenomena of human consciousness; psychophysical relationship. Lectures; readings; discussions. *II*; (3). Dr. RAHN

Prerequisite: Psychology 1 and 2, or 1 and 3, and laboratory training in one of the biological sciences.

10. **German Reading.**—Translation into English of a German psychological text. *I*; (1). Professor BENTLEY

Prerequisite: Psychology 1 and a reading knowledge of German.

12-13. **Minor Problems (Advanced Laboratory).**—The application of methods suitable to new problems. *I*, *II*; (2-5).[1]
Professor BENTLEY, Assistant Professor RUCKMICH, Dr. RAHN

Prerequisite: Psychology 1, 2, 3.

14. **Social Psychology.**—Social consciousness and the collective mind; analysis of the conditions on which social consciousness depends; perceptual, ideational, and emotional factors; the genetic development of the collective mind. *I*; (3).
Dr. RAHN

Prerequisite: Psychology 1 and one other course.

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course: e.g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

16. Genetic Psychology.—Instinctive responses, formation of habits, and development of mental functions in the child from birth to maturity. Lectures; collateral reading; discussions. *I*; (2). Assistant Professor RUCKMICH

Prerequisite: Psychology 1.

17. The History of Psychology.—Lectures and readings in the sources. *II*; (2). Assistant Professor RUCKMICH

Prerequisite: Psychology 1, 2, and one other course.

[**20. Systematic Psychology.**—Psychological analysis and construction. Lectures and essays. (For graduates and advanced undergraduates.) *II*; (3). Not given, 1917-18. Professor BENTLEY]

21-22. Special Studies.—Individual investigations, for advanced students, in the form of essay or experiment. *I*, *II*; (3). Second semester not given, 1917-18. Professor BENTLEY, Assistant Professor RUCKMICH, Dr. RAHN

Prerequisite: Psychology 1, and one other course.

Courses for Graduates

103. Research.—Experimental and historical investigations. *I*, *II*; (*½ to 2 units*). Professor BENTLEY, Assistant Professor RUCKMICH, Dr. RAHN

[**105. Seminar.**—Discussion of current topics in their historical setting. *Once a week; I, II;* (*½ unit*). Not given, 1917-18. Professor BENTLEY]

PUBLIC SPEAKING

(See under THE ENGLISH LANGUAGE AND LITERATURE.)

RAILWAY ADMINISTRATION

(See TRANSPORTATION.)

RAILWAY ENGINEERING

EDWARD CHARLES SCHMIDT,[1] M.E., *Professor*

JOHN MCBEATH SNODGRASS, B.S., *Assistant Professor, Railway Mechanical Engineering; acting head of the department*

——————, *Assistant Professor, Railway Electrical Engineering*

——————, *Associate, Railway Civil Engineering*

HAROLD HOUGHTON DUNN, B.S., *Research Associate, Engineering Experiment Station*

OTTO STERNOFF BEYER [1] M.E., *Research Assistant, Engineering Experiment Station*

Railway Civil Engineering—Courses 31-51

Railway Electrical Engineering—Courses 60-68.

Railway Mechanical Engineering—Courses 1-10.

Common to all groups— Courses 25, 98, and 99.

2. Locomotive Design.—Calculations and designs of engine and boiler details; current standards and proportions. Drafting room systems. *I*; (3). Assistant Professor SNODGRASS

Prerequisite: Mechanical Engineering 12, 62; Railway Engineering 6.

5. Railway Laboratory. Locomotive testing; experimental work with electric and steam railway test cars, brakeshoe testing machine, drop testing machine, and air-brake apparatus. *I*; (3). Assistant Professor SNODGRASS

Prerequisite: Railway Engineering 6; Mechanical Engineering 12, 62.

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[1] On leave for military service.

6. Locomotives.—Mechanics; performance; design. *II*; (4).

Prerequisite: Theoretical and Applied Mechanics 21, 29; registration in Mechanical Engineering 12 and 62.

7. Advanced Design.—Problems in locomotive and car design. *II*; (3).
Assistant Professor SNODGRASS

Prerequisite: Railway Engineering 2.

8. Railway Laboratory.—Investigation of train resistance and locomotive tractive effort by the use of the railway test car. Analysis of the results and their application to the problems of tonnage rating. *II*; (2).
Assistant Professor SNODGRASS

Prerequisite: Railway Engineering 5.

9. Seminar.—Discussion of current topics and review of railway journals; assigned topics and reports. *I*; (1). Professor SCHMIDT

Prerequisite: Open to seniors in railway courses only.

25. Railway Development.—History and organization of steam and electric railways; statistics; costs. *I*; (3). Assistant Professor SNODGRASS

Prerequisite: Open to juniors in railway courses only.

31. Railway Yards and Terminals.—Theory of design; arrangement of grades in gravity yards; problems. *II*; (3).

Prerequisite: Civil Engineering 51.

[**32. Railway Construction.**—Design of railway structures; cost analysis; estimates of cost, complete working drawings, contracts and specifications for assigned problems in design. *I*; (3). Not given, 1917-18.

Prerequisite: Civil Engineering 51.]

[**33. Economic Theory of Railway Location.**—Influence of volume of traffic, alignment, and gradient on operating expenses; locomotive and grade problems; relocation of existing lines. *II*; (4). Not given, 1917-18.

Prerequisite: Civil Engineering 51; Theoretical and Applied Mechanics 20, 21.]

[**34. Railway Maintenance.**—Systems; track design; standards and charts; classification of accounts; measuring efficiency; emergency organization. *II*; (4). Not given, 1917-18.

Prerequisite: Civil Engineering 51.]

[**35. Railway Signaling.**—Block and route signaling; systems in use; history; railway accidents. *I*; (1). Not given, 1917-18.

Prerequisite: Civil Engineering 51.]

50-51. Seminar.—Current topics; review of railway journals; assigned topics and reports. *I*, *II*; (1).

Prerequisite: Open to seniors in railway courses only.

60. Electric Railway Principles.—Mechanics of traction; train resistance; braking of electric railway trains; method of solving fundamental electric railway problems. *II*; (2). Mr. DUNN

Prerequisite: Theoretical and Applied Mechanics 25; Electrical Engineering 25, 75.

61. Electric Traction.—Selection and operation of equipment. (A condensed course for students in railway mechanical engineering or other engineering departments.) *II*; (3). Mr. DUNN

Prerequisite: Theoretical and Applied Mechanics 21 or 25; Electrical Engineering 11, 61, or 25, 75.

62. Electric Railway Laboratory.—Tests of electrical machinery used in railway service. *I*; (2).

Prerequisite: Railway Engineering 60.

63. Electric Railway Laboratory.—(A continuation of Railway Engineering 62.) Tests with the electric test car and the steam dynamometer car to determine train resistance and power consumption. *II*; (2). Mr. Dunn

Prerequisite: Railway Engineering 62, 64.

64. Electric Railway Practise.—Types of equipment; energy consumption; methods of distribution. *I*; (3). Mr. Dunn

Prerequisite: Theoretical and Applied Mechanics 25; Electrical Engineering 26, 76; Railway Engineering 60.

65. Electric Railway Economics.—Location and operation; choice of systems; location of power plant and sub-stations; calculation of transmission and distribution of circuits; maintenance of way and of equipment; electrification of steam roads. *II*; (4). Mr. Dunn

Prerequisite: Railway Engineering 64.

66. Electric Railway Machinery.—Theory and characteristics of electrical machinery used for railway service, of transmission and distribution lines. *I*; (3). Mr. Dunn

Prerequisite: Railway Engineering 60; Electrical Engineering 26, 76.

67-68. Seminar.—Current topics; review of railway journals; assigned topics and reports. *I*, *II*; (1). Mr. Dunn

Prerequisite: Open to seniors in railway courses only.

98. Thesis.—Independent solution of some railway problem or the investigation of some subject. The thesis may consist of an original design or of an original experimental investigation, or may be the analysis and discussion of facts already in existence. *II*; (3).

Professor Schmidt, Assistant Professor Snodgrass, Mr. Dunn

99. Inspection Trip.—*I; (no credit).*

Prerequisite: Senior standing.

Courses for Graduates

Entrance on graduate work in railway engineering presupposes the full undergraduate course in that subject.

102. Locomotive Design.—Modern practise concerning steam pressure, compounding, superheating. *Once a week; I, II; (1 unit).*

Assistant Professor Snodgrass

106. Locomotive Operation.—Train resistance and tractive effort; tonnage ratings. *Once a week; I, II; (1 unit).* Professor Schmidt

108. Electric Railway Practise.—The design, selection, operation, and maintenance of equipment; central station, substation, rolling stock, and line equipment. *Once a week; I, II; (1 unit).* Assistant Professor ————

[**110. Railway Location.**—The effect of location on earning capacity; problems in original location, in the relocation and reduction of grades of existing lines. *I, II; (1 unit).* Not given, 1917-18.]

ROMANCE LANGUAGES AND LITERATURE

Kenneth McKenzie, Ph.D., *Professor*
Thomas Edward Oliver, Ph.D., *Professor*
John Driscoll Fitz-Gerald, II., Ph.D., *Professor, Spanish*
David Hobart Carnahan, Ph.D., *Professor*

Arthur Romeyn Seymour, Ph.D., *Associate*
Olin Harris Moore, Ph.D., *Associate*
Joseph Eugene Gillet, Ph.D., *Associate, Romance Languages and Comparative Literature*
Homero Seris, Ph.D., *Associate*
John Van Horne, Ph.D., *Instructor*
Charles Seraphin Carry, *Assistant*
Rafael Arcangel Soto, B.S., A.M., *Assistant*
John Raymond Shulters, A.M., *Assistant*
Manuel Leon López, A.B., *Assistant*
Pedro Bach y Rita, *Assistant*
Jane Coulson Watson, A.M., *Assistant*
Elisa Curtis, *Assistant*
Edgar Jules Schoen, A.B., *Assistant*
Constance Wilberta Ferguson, A.B., *Assistant*

FRENCH

Major: 20 hours of French, exclusive of French 1a, 1b, 2a, 6a, 6b.

Minors: 20 hours in not more than three of the following subjects: English (excluding Rhetoric 1-2), German, Greek, Italian, Latin, Spanish, comparative literature, history, and philosophy, provided that 8 hours must be taken in one subject other than a Romance language.

ROMANCE LANGUAGES

Major: 20 hours in French and one other Romance Language, exclusive of French 1a, 1b, 2a, 6a, 6b, Italian 1a, 1b, Spanish 1a, 1b.

Minors: 20 hours in not more than three of the following subjects: English (excluding Rhetoric 1-2), German, Greek, Italian, Latin, Spanish, comparative literature, history, and philosophy, provided that the minor does not include any language contained in the major in Romance Languages.

A. FRENCH

Courses for Undergraduates

1a-1b. Elementary Course.—Grammar; pronunciation; reading of modern authors; composition; conversation. *I* or *II*; (4). Professor Oliver, Dr. Moore, Dr. Gillet, Dr. Seris, Dr. Van Horne, Mr. Carry, Mr. Shulters, Mr. Bach y Rita, Mr. Schoen

1a-b. Elementary Course.—(Equivalent to French 1a and French 1b; for students who have no credit in French.) *II;* (8). Professor Oliver

2a-2b. Modern Prose, Poetry, and Drama.—Rapid reading of modern authors; advanced syntax and composition. *I*, *II*; (4).
Professor McKenzie, Professor Carnahan, Dr. Moore

Prerequisite: French 1a-1b, or an equivalent demonstrated by examination.

5a-5b. Introduction to French Literature.—Authors of the last three centuries. Composition; review of the grammar. *I*, *II*; (3). Professor Fitz-Gerald

Prerequisite: French 2a-2b, or an equivalent demonstrated by examination.

6a-6b. Second-Year Conversation.—Mainly classroom work. (Does not count a major in French.) *I*, *II*; (1). Mr. Carry

Prerequisite: French 1a-1b, with a grade of at least 85.

6c. Conversation.—(For men taking military work or preparing for overseas service.) *II;* 2). Dr. Gillet

Prerequisite: At least 4 hours' credit in French and either sophomore standing or registration in another course in French.

7a-7b. Intermediate Composition and Conversation.—Conducted entirely in French, giving facility in idiomatic expression in writing and speaking. Reading; themes; talks on France and French life. *I, II*; (2). Dr. Gillet, Mr. Carry

Prerequisite: French 2a-2b, or 6a-6b.

Note: Required of those who are given the recommendation of the department to teach French.

8a-8b. Advanced Composition and Conversation.—French life and literature. Idiomatic construction; syntax; themes. Conducted entirely in French. *I, II;* (2). Not given, second semester, 1917-18. Dr. Gillet

Prerequisite: French 7a-7b.

25. Course for Teachers.—Methods of teaching French in this country and abroad; actual contact with classroom problems. *I*; (2). Professor Carnahan

Prerequisite: Twenty-four hours' credit in French, including French 7a-7b.

28a-28b. Senior Thesis.—For candidates for honors in French; open to other seniors. *I, II*; (1). Members of the department

Courses for Advanced Undergraduates and Graduates

Prerequisite for the courses following: at least three years of college French or the equivalent.

10a-10b. Survey of French Literature.—Special periods and authors. The main currents of French literature from the beginning to the present time. *I, II*; (3). Professor Carnahan

24a-24b. Seventeenth and Eighteenth Century Drama.—Corneille, Racine, Molière, Voltaire, Marivaux, Sedaine, Beaumarchais. Lectures and interpretation. *I, II*; (2). Professor Oliver

45a-45b. French Realism.—Flaubert, Maupassant, E. and J. de Goncourt, Daudet, Zola. Lectures; reports on collateral reading. Conducted in French if desired. *I, II*; (2). Dr. Moore

50. Contemporary French Literature.—*II;* (3). Dr. Gillet

Courses for Graduates

Before entering on the study of Romance Languages as a major for an advanced degree, a candidate must have had at least (a) three years of college work in French, together with a reading knowledge of Italian or Spanish; or (b) two years of college work in French and the same in Italian or Spanish. The candidate must also have had satisfactory training in Latin, and be able to read German prose.

Graduate students who select Romance languages as a first or second minor must have had at least two years of college work in the language desired and be able to read German prose.

102. Old French Lyric and Prose Literature.—History and critical interpretation of didactic, historical, and lyric writings. *Twice a week; I, II; (1 unit).* Professor Oliver

103. Seventeenth Century Prose Writers.—French society, culture, and prose literature of the seventeenth century; the great writers; the formation of classic ideals. *Once a week; I, II; (½ unit).* Professor Oliver

119. Belgian Literature in French since 1880.—Reading and reports. *Twice a week; II; (1 unit).* Dr. Gillet

127. French Romanticism.—Origin and development of the Romantic movement in France. *Twice a week; I, II; (1 unit).* Professor Carnahan

B. *ITALIAN*

Courses for Undergraduates

1a-1b. Elementary Course.—Grammar; composition; conversation; reading. *I, II:* (3). Professor McKenzie

Course for Advanced Undergraduates and Graduates

2a-2b. Italian Literature.—Italian writers of the nineteenth century. Composition; conversation. *I, II*; (2). Dr. Van Horne

Prerequisite: A reading knowledge of Italian.

Course for Graduates

140. Dante.—The *Vita Nuova* and portions of the *Divina Commedia*. *Twice a week; I;* (*1 unit*). Professor McKenzie

C. *SPANISH*

Courses for Undergraduates

1a-1b. Elementary Course.—Grammar; pronunciation; reading; composition; conversation. *I* or *II*; (4). Dr. Seymour, Dr. Seris, Dr. Van Horne, Mr. Soto, Mr. López, Mr. Bach y Rita, Miss Watson, Miss Curtis

2a-2b. Modern Spanish.—Rapid reading; review of grammar; conversation on topics of everyday life; composition. *I, II*; (4). Professor Fitz-Gerald, Mr. Soto

Prerequisite: Spanish 1a-1b, or an equivalent demonstrated by examination.

3a-3b. **Introduction to Spanish Literature.**—Reading of modern authors, and of writers of the seventeenth century. *I, II*; (3). Dr. Van Horne

Prerequiste: Spanish 2a-2b, or an equivalent demonstrated by examination.

4a-4b. **Business Correspondence and Conversation.**—Reading of facsimile business correspondence; writing of business letters; conversation. Reports on commercial topics. Conducted in Spanish. *I, II*; (2). Mr. Bach y Rita

Prerequisite: Spanish 2a-2b.

5a-5b. **Business Practise in Spanish.**—Commercial, legal, consular, and governmental documents and trade reports; conversation; advanced correspondence. (Primarily for students in Commerce and Business Administration.) *I, II*; (2). Dr. Seymour

Prerequisite: Spanish 4a-4b.

Courses for Advanced Undergraduates and Graduates

11a-11b. **The Spanish Drama of the Sixteenth and Seventeenth Centuries.**—Earlier dramatists; representative plays of Lope de Vega, Calderón, Ruiz de Alarcón and Tirso de Molina. Reports on outside reading. *I, II*; (2). Dr. Seymour

Prerequisite: Spanish 3a-3b, or the permission of the instructor.

17a-17b. **The Spanish Drama of the Nineteenth Century.**—Representative plays. Reports on outside reading. *I, II*; (2). Dr. Van Horne

Prerequisite: Spanish 3a-3b, or the permission of the instructor.

Courses for Graduates

132. **The Novela of the Golden Age.**—Political and social conditions in Spain from 1560 to 1700; *Don Quixote* and the *Novelas exemplares* of Cervantes. *Twice a week; I, II;* (*1 unit*). Professor Fitz-Gerald

135. **The Modern Novel in Spain.**—Development of the novel in Spain from the middle of the nineteenth century to the present; history of the novel in France, Spain, and Italy. *Twice a week. I, II;* (*1 unit*). Dr. Seymour

D. ROMANCE PHILOLOGY

Courses for Graduates

171. Introduction to Romance Philology.—Phonology and morphology of the Romance languages. *Twice a week; I, II; (1 unit).* Professor Fitz-Gerald

179. Provençal.—Grammar and reading. *Once a week; I, II; (½ unit).* Dr. Moore

191. Fables and Bestiaries.—History of animal literature, with special reference to medieval French and Italian collections. *Twice a week; II; (1 unit).* Professor McKenzie

195. Seminar.—Research work in preparation for theses. *I, II; (1 unit).* Members of the department

Summer Session Courses

French

S 1a. Elementary Course.—(4). Professor Oliver

S 1b. Elementary Course (continued).—(4). Mr. Carry

Prerequisite: French 1a, S1, one year of high-school French, or the consent of the instructor.

S 2a. Reading of Modern French.—Modern authors, composition, conversation. (3). Mr. Carry

Prerequisite: One year of university French or an equivalent.

S 6. Conversation.—(1). Mr. Carry

Prerequisite: The approval of the instructor.

S 7. Composition and Conversation.—(Intermediate course.) Conducted in French. (1). Mr. Carry

Prerequisite: Ability to understand spoken French, and the approval of the instructor.

S 24b. Eighteenth Century Drama.—Lectures; reading of plays by Voltaire, Marivaux, Lesage, Piron, Sedaine, Beaumarchais. Collateral reading of additional plays and of literary criticisms. (1). Professor Oliver

Prerequisite: At least two years of university French, or an equivalent, and the approval of the instructor.

S 100. Seminar.—Graduate work in French literature for properly qualified students. Professor Oliver

Spanish

S 1a. Elementary Course.—(4). Mr. López

S 2. Conversation, Composition, and Reading.—The vocabulary of everyday life; commercial correspondence. (1). Mr. López

Prerequisite: One year of university Spanish or its equivalent.

SCANDINAVIAN LANGUAGES AND LITERATURE

(See Germanic Languages and Literature.)

THE SOCIAL SCIENCES

(See Economics, History, Political Science, and Sociology.)

SOCIOLOGY

Edward Cary Hayes, Ph.D., *Professor*
James Garfield Stevens, Ph.D., *Associate*
Herbert Knight Dennis, A.M., *Assistant*

Cooperating:

DAVID KINLEY, Ph.D., LL.D., *Professor of Economics*

HENRY ELMER HOAGLAND, Ph.D., *Instructor in Economics*

Major: 20 hours from any courses offered in the department.

Minors: 20 hours chosen from two or three of the following subjects; History, economics, political science, philosophy, and psychology.

Courses for Undergraduates

1. **The Principles of Sociology and Their Application to Present Problems.**—*I* or *II*; (3). Professor HAYES, Dr. STEVENS, Mr. DENNIS

Prerequisite: Junior standing.

7. **The Social Problems of the Rural Community.**—*II*; (2). Professor HAYES, Mr. DENNIS

Prerequisite: Junior standing.

Courses for Advanced Undergraduates and Graduates

2. **Social Psychology and Social Control.**—Current tendencies in the psychological interpretation of social life; ways in which the sentiments, opinions, and conduct of the members of society are shaped. *II*; (3). Mr. DENNIS

Prerequisite: Sociology 1.

3. **Social Evolution.**—Social activity among savage, barbarous, and civilized people; family organization, practical arts, economic wants and institutions, origins of government and law, codes of morality, religions; inductions from such facts, as to the theory of social evolution and the method of progress. *II*; (3). Professor HAYES

Prerequisite: Sociology 1.

8. **Charities.**—Evolution of modern organized philanthropy, public and private; causes and prevention of poverty; organization and management of charitable institutions. *I*; (3). Dr. STEVENS

Prerequisite: Sociology 1 or Economics 1; junior standing.

9. **Criminology.**—Nature, causes, and treatment of the criminal; evolution of modern methods of criminal procedure and penology; recent experiments and tendencies. *II*; (3). Dr. STEVENS

Prerequisite: Sociology 1 or senior standing.

10. **Population.**—Theories and policies of population; Malthus's principle; and its critics; population of the United States; immigration, race mixture, public health, death-rate, birth rate, "race-suicide," marriage, divorce; selective influences at work on the "population type." *I*; (3). Dr. STEVENS

Prerequisite: Sociology 1 or Economics 1; senior standing.

12a-12b. **Labor Problems.**—The same as Economics 12a-12b. *I*, *II*; (3). Dr. HOAGLAND

Prerequisite: Senior standing, Economics 1, and three additional hours in economics for which Economics 1 is a prerequisite; or senior standing and Economics 1, for students whose major is in one of the social sciences.

14. **Social Statistics.**—Social investigation and research; social and community surveys; verification of sociological laws and principles by the statistical method; vital statistics and population in the light of data afforded by official publications and special investigations; the statistical method applied to sociology and social problems. *II*; (3). Dr. STEVENS

Prerequisite: Sociology 1 or Economics 1, and, except in special cases, Sociology 10: senior standing.

[15. **The Family.**—Historical aspects of the family; its role in modern society, and problems of social policy arising therefrom. *II*; (3). Not given, 1917-18.

Prerequisite: Sociology 1.]

21. **Socialism and Economic Reform.**—The same as Economics 21. *II*; (2). Professor KINLEY

Prerequisite: Economics 1 and 3. Students who have taken 6 hours in history and are making sociology their major subject may substitute Sociology 1 for Economics 3 as a prerequisite.

Courses for Graduates

Preparation for graduate work in sociology must include the equivalent of twelve semester hours in the social sciences, of which at least three must be in sociology, and three in the principles of economics. The remainder may be in any combination of these two subjects, or of history and political science.

100. **Bases of Social Theory.**—Systematic presentation and critical discussions. *Twice a week; I; (½ to 1 unit).* Professor HAYES

102. **The Development of Sociology.**—Reading of sociological works; discussions; lectures. *Twice a week; I, II; (1 unit).* Professor HAYES

150. **Seminar.**—Detection and statement of problems. Preparation of theses. *Once a week; I, II; (1 or 2 units).* Professor HAYES

Summer Session Courses

S 1. **The Principles of Sociology and Their Application to Present Problems.**—(2). Professor HAYES

Prerequisite: Junior standing, or equivalent.

S 7. **The Social Problems of the Rural Community.**—(1). Professor HAYES

Prerequisite: Sophomore standing or equivalent.

S 3. **Social Evolution.**—For description, see Sociology 3. (2). Professor HAYES

Prerequisite: Sociology 1.

Courses for Graduates

S 100. **Bases of Social Theory.**—(½ *unit.*) Professor HAYES

TRANSPORTATION

ERNEST RITSON DEWSNUP,[1] M.A., *Professor*
GEORGE BURR MCMILLEN, A.M., *Instructor*

Courses for Undergraduates

1. **Transportation System of the United States.** *I*; (3). Professor DEWSNUP

Prerequisite: Economics 1 or 2; junior standing.

7. **Railway Organization.**—The departments and functions of the American railway. *I*; (2). Professor DEWSNUP

Prerequisite: Accountancy 1 and Economics 1, previously or concurrently. For senior students in the College of Engineering, Economics 2.

35a-35b. **Thesis.**—Investigation of problems in railway administration. Preliminary outline must be filed with the department by the second Friday in October, extended outline and bibliography by the second Friday in November, and a first draft of at least fifteen pages of the thesis by the second Friday in January. *I, II*; (2). Professor DEWSNUP

Prerequisite: Full senior standing in railway administration.

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[1] On leave for war service, second semester, 1917-18.

Courses for Advanced Undergraduates and Graduates

[2. **Transportation Policy in Europe and in the United States.**—The regulation of railways in the United States and Europe. *II*; (3). Not given, 1917-18.

Prerequisite: Transportation 1; Economics 1.]

12. **Freight Shipment.**—Preparation of goods for shipment and practical rate-making. *II*; (2). Mr. McMillen

Prerequisite: Transportation 7, or 60 hours of university work.

13. **Railway Traffic Administration.**—Freight and passenger traffic management. *I*; (3). Professor Dewsnup

Prerequisite: Transportation 12, or credit or concurrent registration in Transportation 1.

[17. **Railway Terminal Management.**—Freight and passenger terminals. *I*; (3). Not given, 1917-18.

Prerequisite: Transportation 7, or credit or concurrent registration in Transportation 1; Economics 1.]

22. **Railway Train Service.**—The standard code of train rules; train dispatching; block-signaling; time-table construction. (An inspection trip to Chicago of four days' duration forms part of this course, Monday to Thursday, inclusive, preceding the Easter recess; expenses about $12.) *II*; (3). Mr. McMillen

Prerequisite: Transportation 1, 7, and 13.

[26. **The Economics of Railway Construction and Maintenance.**—*II*; (3). Not given, 1917-18.

Prerequisite: Transportation 1, 7, and 17.]

Courses for Graduates

101. **Railway Rate Policy.**—*Twice a week; I;* (*1 unit*). Professor Dewsnup

[102. **The Fiscal Administration of American Railways.**—*Twice a week, II;* (*1 unit*). Not given, 1917-18.]

[103. **Foreign Railway Administration.**—*Twice a week; I;* (*1 unit*). Not given, 1917-18.]

[104b. **Standards of Railway Operation.**—The work of this course requires a cycle of three years for its completion, tho credit will be given for each semester's work. 104a deals with organization and maintenance of standards, 104c with passenger service. *Once a week or, at the option of the instructor, twice a week; II;* (*1 unit*). Not given, 1917-18.]

ZOOLOGY

Henry Baldwin Ward, Ph.D., *Professor*
John Sterling Kingsley, D.Sc., *Professor*
Frank Smith, A.M., *Professor*
Charles Zeleny, Ph.D., *Professor*
Victor Ernest Shelford, Ph.D., *Assistant Professor*
Harley Jones Van Cleave, Ph.D., *Associate*
Ernest Carroll Faust, Ph.D., *Instructor*
Joseph Krafka, Jr., M.S., *Research Assistant*
Ezra Clarence Harrah, A.B., *Research Assistant*
Jesse Roy Christie, B.S., *Assistant*
Florence Sander Hague, A.M., *Assistant*
Daniel Paul Quiring, A.B., *Assistant*
Lester Carlton Ver Nooy, A.B., *Assistant*

GERTRUDE MELLEN HOOPER, A.B., *Graduate Assistant*
LLOYD BLACKWELL DICKEY, A.M., *Graduate Assistant*
HENRY EDWARD SCHRADIECK, B.S., *Graduate Assistant*

Major: 20 hours from any courses offered in the department, excluding Zoology 1, and including Zoology 2, 3, 4, and 5 (or 25-26).

Minors: 20 hours chosen from two or three of the following subjects: animal husbandry (Animal Husbandry 30), bacteriology, botany, chemistry, entomology, physics, physiology, psychology, paleontology, and physiography.

Courses 1 and 2 constitute an introduction to later work in zoology. In the second year, a student may choose as a line of work either morphological, experimental, ecological, faunistic, or systematic courses. The courses in miscroscopical technic (3), heredity and evolution (5), and current literature (20) are of value for all students. Medical students should take courses 3 and 6 the second year. Those preparing to teach zoology in the high school should take invertebrate morphology (4), field zoology (16, 17), and ecology (9, 11), and a course in general entomology.

Courses for Undergraduates

1. **General Zoology.**—Animal biology; structure; function, interrelations, origin, and development of animal life; generalizations in zoological theory. Lectures, laboratory; quiz work. *I* or *II*; (5). Professor WARD, Assistant Professor SHELFORD, Dr. VAN CLEAVE, Dr. FAUST, and assistants

2. **Vertebrate Zoology and Comparative Anatomy.**—The Chordata; vertebrate embryology; structure of vertebrate tissues; anatomy of systems of organs; function, ontogeny, and evolution in the vertebrate series; anatomy of types of the Chordata. Lectures; laboratory; quiz work. *II*; (5). Professor KINGSLEY and assistants

Prerequisite: Zoology 1.

4. **Invertebrate Morphology.**—Morphology of a series of invertebrates; invertebrate structure and development; the application of biological principles. Laboratory; lectures; demonstrations. *II*; (3). Dr. VAN CLEAVE

Prerequisite: Zoology 1.

5. **Heredity and Evolution.**—Facts and present views; proof of organic evolution; probable factors involved. Lectures; demonstrations; assigned reading. *II*; (2). Professor ZELENY

Prerequisite: One year of university work.

9. **Animal Ecology.**—The relations of animals to their natural environments. Field and experimental work; lectures on the natural history of mammals, birds, reptiles, and amphibians. *II*; (3). Assistant Professor SHELFORD

Prerequisite: One year of zoology or one and one-half years of university work, including Zoology 1.

16. **Economic Ornithology.**—Birds of the vicinity. Identification; food relations; seasonal distribution; migration activities. Economic importance of birds. Lectures; assigned reading; two field trips a week during April and May. *II*; (2). Professor SMITH

19a-19b. **Advanced Ornithology.**—(Continuation of Zoology 16.) Systematic and field work; economic and technical literature. *I*, *II*; (2 to 5).[1] Professor SMITH

Prerequisite: Zoology 16 or equivalent.

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[1] In registering for a course with variable credit hours, a student must put down on his study-list, *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course; e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

17. Field Zoology.—Collection, preservation, and identification of representatives of the lower vertebrates and of land and freshwater invertebrates (excluding insects) in the vicinity; identification of living and preserved material from larger rivers and lakes; habits and life histories of selected forms. Field and laboratory work; assigned readings. *I*; (4). Professor SMITH

Prerequisite: One year in zoology.

Courses for Advanced Undergraduates and Graduates

3. Microscopical Technic and Vertebrate Embryology.—Vertebrate embryo in early stages of development; fixation, imbedding, section cutting, staining, and mounting; preparation of material for use in introductory embryology. Lectures; laboratory. *I*; (3). Professor KINGSLEY

Prerequisite: Zoology 1, 2.

6. Vertebrate Organogeny.—Development of the organs of the vertebrate body. Lectures; assigned readings; laboratory studies on embryos of the chick, dogfish, Amblystoma, and pig. (A continuation of Zoology 3.) *II*; (3). Professor KINGSLEY

Prerequisite: Zoology 1, 2, 3.

11. Experimental Ecology and Geography.—The physiology of environmental relations; analysis of behavior. World and regional aspects of behavior and ecology; animal distribution as related to climate and vegetation. *I*; (2 or 4).[1] Assistant Professor SHELFORD

Prerequisite: One year of zoology and senior standing.

18. Advanced Field Zoology.—(A continuation of Zoology 17.) Taxonomic or distributional problems in connection with the local fauna. *II*; (3 to 5).[1] Professor SMITH

Prerequisite: Zoology 17.

25-26. Experimental Zoology.—Experimental embryology; regeneration; heredity; variation; evolution. Laboratory; assigned reading; conference. *I*, *II*; (5). Professor ZELENY

Prerequisite: Two years of university work, including one year in zoology.

22-23. Morphology of Vertebrates.—The skeleton and the brain, the cranial nerves, and the eye and ear. Lectures; laboratory work; dissection of types. *I*, *II*; (2-4).[1] Professor KINGSLEY

Prerequisite: Zoology 1, 2, 3, and 6.

21a-21b. Introduction to Zoological Research.—Morphology, life history, or reciprocal relations of invertebrates, especially parasites of man and other animals. Laboratory; conferences; assigned reading. *I*, *II*; (2 to 5).[1] Professor WARD

Prerequisite: One year in zoological courses, and senior standing.

20a-20b. Current Literature.—Presentation and discussion of the results of recent investigation. (Open to all students in zoology; should be taken by those intending to graduate with a thesis.) *I*, *II*; (1). Professor ZELENY

Prerequisite: Three years of university work, including one year in zoology.

8a-8b. Senior Thesis.—Individual work on assigned topics. *I*, *II*; (5). Members of the department

Prerequisite: Two years of zoology.

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[1] In registering for a course with variable credit hours, a student must put down on his study-list; *not* the possible hours, as shown here, but the number of hours for which *he* intends to take the course, e. g., not *2-5*, but *2*, or *3*, or *4*, or *5*.

Courses for Graduates

Students entering on graduate study in zoology should have had two years of undergraduate work in the subject. When chosen as a minor the courses listed for graduates and undergraduates must be preceded by at least one full year's undergraduate work in zoology. Work done at other institutions will be evaluated on conference with the head of the department.

102. Vertebrate Morphology.—Origin of vertebrates; segmentation of the head; morphology of special systems. Lectures; required reading. *Twice a week; I; (½ unit).* Professor KINGSLEY

[**107. Parasitology.**—Structure and life history of animal parasites; their relation to disease; origin and biological significance of parasitism. Conferences; assigned readings: demonstrations. *Twice a week; I, II; (1 unit).* Not given, 1917-18. Professor WARD]

[**109-109a. Physiological Ecology.**—The regulatory mechanism of organisms; neutrality, osmotic pressure, immunity, and temperature in relation to natural environments. 109, *twice a week;* 109a, assigned readings and reports. *II; (½ unit each).* Not given, 1917-18. Assistant Professor SHELFORD]

110-110a. Economic Ecology.—Physiology and ecology in problems of fisheries and pollution; insect pests and weather; forestry and conservation. 110, *twice a week;* 110a, assigned reading and reports. *II; (½ unit each).* Given in 1917-18 and in alternate years. Assistant Professor SHELFORD

111. Experimental Ecology.—Repetition of published experiments in physiology and ecology. The student selects a topic on animal reactions or on the measurement of osmotic pressure, temperature, acidity, or conductivity, with modern apparatus. *I, II; (½ to 2 units).* Assistant Professor SHELFORD

115. Factors of Individual and Racial Development.—Experimental embryology; regeneration; heredity; variation; evolution. *Twice a week; I, II; (1 unit).* Professor ZELENY

117. Faunistic Zoology.—Taxonomy and distribution, with especial reference to the local fauna; laboratory and field work. *Three times a week; I; (½ to 1 unit).* Professor SMITH

121. Invertebrate Morphology and Parasitology.—Individual research course. *I, II; (1 to 2 units).* Professor WARD

122. Vertebrate Morphology.—Individual research course. *I, II; (1 to 2 units).* Professor KINGSLEY

123. Faunistic and Systematic Zoology.—Individual research course. *I, II; (1 to 2 units).* Professor SMITH

124. Experimental Zoology.—Individual research course. *I, II; (1 to 2 units).* Professor ZELENY

125. Animal Ecology and Behavior.—Individual research course. *I, II. Credit to be arranged.* Assistant Professor SHELFORD

127. Theories of Animal Phylogeny.—Relations of various groups of animals; significance of so-called intermediate forms; invertebrate larval forms and theories of descent based on them. Lectures; assigned readings; demonstrations. *Once or twice a week; I, II; (1 unit).* Given in 1917-18 and in alternate years. Professor WARD

Summer Session Courses

S 1. General Zoology.—Animal biology; structure; function; interrelations, development, generalizations. Lectures; field trips; laboratory; recitations. (4). Dr. VAN CLEAVE

S 4. Invertebrate Morphology.—Structure and development of a series of invertebrates. Lectures; recitations; laboratory. (2). Dr. VAN CLEAVE

S 17. Field Zoology.—Collection, preservation, and identification of representatives of types of animal life, common in the vicinity (excluding insects). Field and laboratory work; lectures; assigned reading. (4). Professor SMITH

S 117. Faunistic Zoology.—Taxonomy and distribution. Field and laboratory work; literature involved; conferences. (*½ to 2 units*). Professor SMITH

PART IV
UNIVERSITY PUBLICATIONS

UNIVERSITY PUBLICATIONS

The University of Illinois publishes, through its several departments and experiment stations, and the scientific bureaus located at the University,[1] the publications named below. A complete list of publications available for sale or free distribution (other than the Annual Register and the announcements of the colleges and schools) is issued by the University Library annually in July. Persons wishing to obtain any of the publications are requested to correspond with the department concerned or with H. E. Cunningham, 156 Administration Building. Libraries and institutions offering material of equivalent value may secure exchanges by corresponding with the University Librarian.

The list of series of publications is as follows:

AGRICULTURE:

The Bulletin of the Agricultural Experiment Station.
The Circular of the Agricultural Experiment Station.
The Soil Report of the Agricultural Experiment Station.

ENGINEERING:

The Bulletin of the Engineering Experiment Station.
The Circular of the Engineering Experiment Station.
The Ceramics Bulletin.

SCIENTIFIC BUREAUS:

The Report of the State Entomologist.
The State Laboratory of Natural History Bulletin.
The Natural History Survey of Illinois.
The State Geological Survey Bulletin.
The State Geological Survey Monographs.
The State Water Survey Bulletin.
The Illinois Coal Mining Investigations Bulletin.

EDUCATION:

The School of Education Bulletin.
The Bulletins of the High-School Visitor's Office.

HOUSEHOLD SCIENCE:

The Household Science Bulletin.

ENGLISH:

The Illinois Association of Teachers of English Bulletin.

LAW:

The Law Bulletin.

GRADUATE SCHOOL:

The Journal of English and Germanic Philology (quarterly, $3.00 a year).
The University Studies (occasional).
The University of Illinois Studies in the Social Sciences (monographs, quarterly, $3.00 a year).
The University of Illinois Studies in Language and Literature (monographs, quarterly, $3.00 a year).
The Illinois Biological Monographs (quarterly, $3.00 a year).

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[1] See pages 397 to 411.

In addition to the serials enumerated above, the University has published a number of books, among which may be mentioned the following:

Alumni Record, 1913; 921 pages, $2.50.

Directory of Matriculants, 1916; 35,000 names, 1,284 pages, $5.00.

Konungs Skuggsa, the main MSS. of, in phototypic reproduction, with diplomatic text, 1915; 67 plates, 191 pages, $15.00.

The Genus Phoradendron, 1916; 224 pages, 245 plates, $2.50.

Municipal Documents and other Publications on Municipal Government in the University of Illinois Library, 1917; 49 pages, $0.25.

List of Serials in the University of Illinois Library, together with those in other libraries in Urbana and Champaign, 1911; 233 pages, $1.20.

State Documents for Libraries, 1915; 163 pages, $0.75.

PART V

UNIVERSITY EXTENSION

UNIVERSITY EXTENSION

Extension work has not been organized as a separate administrative unit in the University of Illinois. Several departments, however, have initiated activities, both on the campus and in the State at large, which serve to make some of the facilities of the University available to groups of mature persons who are engaged in various industries and professions.

AGRICULTURE

Each of the departments of the College of Agriculture does extension work and so far as possible provides special men for this purpose. In addition to this, a separate service known as Agricultural College Extension, offers courses in the principles and methods of extension work (see page 244), conducts extension enterprises that do not deal with technical subjects, and cooperates with the other departments in projecting their work in the State.

Some of the more general College extension enterprises are:

(1) A two-weeks course in agriculture, known as the Corn Growers' and Stockmen's Convention, held annually at the College of Agriculture since 1898. The work includes lectures, conferences, and demonstrations in the subjects of stock-judging, milk-testing, farm mechanics, and farm crops.

(2) Agricultural-extension schools of a week's duration. Fifty-two such schools were held in different parts of the State during 1916-17.

(3) Demonstrations held in connection with soil-fertility and crop fields throughout the State.

(4) Cooperation, by furnishing teachers and lecturers, with other educational agencies for rural communities, e.g., farmers' institutes, special lecture railway trains, the Boys' State Fair School.

(5) Educational exhibits at fairs and expositions.

(6) School and community excursions to the University.

For the Cooperative Extension Service in agriculture and home economics conducted by the University of Illinois and the United States Department of Agriculture, under the provisions of the Federal Smith-Lever Act of May 8, 1914, see pp. 392-393.

CERAMIC ENGINEERING

In addition to the regular four-year technical curriculum, the department of ceramic engineering cooperates with the clay and allied industries by offering annually, at Urbana, during the second and third weeks in January, a two-weeks industrial course in the principles underlying the manufacture of clay products, for those who have not the time nor the preparation required for academic studies. The work includes lectures, laboratory work, practise in firing kilns, and informal gatherings for question-asking. A common-school education is sufficient to enable one to do the work of this course. No charge of any kind is made. The number enrolled in January, 1915, was 47; in January, 1916, 25. The course was omitted in 1916-17.

COOPERATIVE EXTENSION SERVICE

University of Illinois and United States Department of Agriculture Under the Smith-Lever Act

Eugene Davenport, M.Agr., LL.D., Director of Agricultural Extension Service

Agriculture

Walter Frederick Handschin, B.S., *Vice-Director of Extension Service*
George Nelson Coffey, Ph.D., *State Leader*
James Henry Greene, M.S., *State Leader in Junior Extension*
James Dater Bilsborrow, B.S., *Assistant State Leader*
Harold Clayton M Case, B.S., *Assistant State Leader*

Department Specialists

Agronomy
- Walter Byron Gernert, Ph.D., *Assistant Professor, Farm Crops Extension*
- Frederick Charles Bauer, B.S.

Animal Husbandry
- Daniel Otis Barto, B.S.
- William Herschel Smith, M.S.

Dairy Husbandry
- Ernest M Clark, B.S.
- Chris Simeon Rhode, B.S.

Farm Organization and Management
- Harold Clayton M Case, B.S.

Horticulture
- Bethel Stewart Pickett, M.S.
- Alfred Joseph Gunderson, B.S.
- William Sanford Brock, B.S., A.B.

County Advisers	*County*
William George Eckhardt, B.S.	DeKalb
John S Collier, M.S.	Kankakee
Roy C Bishop, B.S.	Livingston
Arthur J Gafke, B.S.	McHenry
Jerome Edward Readhimer, B.S.	Kane
Edward B Heaton, B.S.	DuPage
Ernest Thompson Robbins, B.S.	Tazewell
Paul R. Lisher, B.S.	Will
William E Hedgcock, B.S.	Peoria
Charles Hubert Oathout, B.S.	Champaign
Lewis W Wise, B.S.	Iroquois
Charles Judson Mann, B.S.	Bureau
Ira Sanford Brooks, B.S.	LaSalle
Francis E Longmire, M.S.	Grundy
Earl W Rusk, B.S.	Adams
J H Lloyd, B.S.	Hancock
David O Thompson, B.S.	McLean
Frank D Baldwin, B.S.	Mason
M L Mosher, M.S.	Woodford
I F Gillmor, B.S.	Mercer

Leland Stanford Griffith, B.S.	Lee
Palmer R Edgerton, B.S.	Rock Island
Aaron W Miner, B.S.	Fulton
W E Watkins, B.S.	Lake
J J Doerschuk, B.S.	Randolph
George T Snyder, B.S.	Ogle
John T Montgomery, B.S.	Henry

Under the provisions of the Smith-Lever Act, approved by the President of the United States on May 8, 1914, and the terms of its acceptance by the State of Illinois, the University becomes cooperatively responsible for a system of demonstration service designed to combine the results of scientific discovery with the most approved practise on the farms and in the households of the State.

The most important lines of work undertaken under this act are as follows:

(1) Cooperation with county farm bureaus in the employment of agricultural advisers.

(2) Cooperation with county home improvement associations in the employment of a woman adviser.

(3) Cooperation with local associations in home-economics demonstrations.

(4) Employment of extension specialists in agriculture and home economics as special advisers in the field.

HOME ECONOMICS

Isabel Bevier, Ph.M., *Vice-Director of Home Economics Extension*
Mamie Bunch, A.B., *State Leader in Home Economics Demonstration*
Olive Belle Percival, B.S., *Assistant in Home Economics Demonstration*
Fannie Maria Brooks, A.B., *Instructor in Home Economics Demonstration*
Naomi Olive Newburn, A.B., *Instructor in Home Economics Extension*
Mabel Wilkerson, Ph.B., *Assistant in Home Economics Extension*

The service in home economics may be classified as follows:

1. **Correspondence.**—Numerous requests come from individuals and clubs for help in solving some problem of preparing food, planning a house, feeding a child, or in preparing topics for club study. All such requests receive careful attention. In 1916-17, 62,765 pieces of mail were sent out.

2. **Service for Organizations.**—This includes demonstrations and addresses before farmers' institutes, federated or local clubs, parents' and teachers' associations, the State Fair School, or other groups of people. In 1916-17, 253 such organizations were served, reaching 23,515 people.

3. **The School for Housekeepers.**—This has been held annually, at Urbana, during the last two weeks in January. It offers instruction in food, clothing, and shelter, and provides an opportunity for the discussion of some of the fundamental problems of home life and management. The attendance has increased during the past eight years from 45 to 657. No fees are charged in connection with this school. (Not offered, 1917-18.)

4. **Movable Schools.**—The department of household science will, in so far as possible, provide instruction on request for a movable school in any community which is sufficiently interested to pay the local expenses (hire of hall, etc.) and the traveling and living expenses for the week of one or two instructors. During the year 1916-17, fifty-seven movable schools were held in the State, with an enrollment aggregating 25,043. Eighty-four counties were served thru avenues other than correspondence.

5. Press.—Since April, 1917, all extension service has been modified to meet war conditions. Letters on food conservation have been sent each week to 1035 papers thruout the State.

6. Demonstration Car.—This car marks a new departure in demonstration work. Hitherto, demonstrations in Home Economics have been confined largely to the cooking of food. It is the purpose of this car to extend this method of presentation to power equipment and house furnishings: to show the machines, the kitchen utensils, and the color schemes, not just to talk about them.

In accordance with this idea, this car shows how power commonly used upon the farm may also be employed in performing a large part of the heavy labor of the home, thereby contributing to the health and comfort of the housekeeper; how to secure an adequate water supply for both the house and barn with the necessary provision for sewage disposal; and, finally, how, by attention to equipment and to the principles of form and color, the essentials of comfortable living may be secured for the country home at a reasonable cost.

The car and its equipment provide sufficient material for demonstration work for a week. The University pays the salaries of the demonstrators and furnishes the exhibit. The local committee is responsible for the following details:

I. Proper advertising of the car.

II. Arranging with local railroad as to the location of the car on a spur or switch where it will not be bumped and where it is readily accessible.

III. Securing a suitable hall for lectures and demonstrations that cannot be held in the car.

IV. Providing hard coal for the heater, gasoline for the engines, and janitor service.

V. Providing board, room, and comfortable living conditions for the demonstrators, whose hours of service are long and duties exacting.

VI. Mileage of the car.

In 1916-17 the car served 20 engagements with an attendance of 13,410.

Program for a Movable School with One Instructor

Monday	2:00–4:00	Lecture: Food and its functions. Exhibit showing relative values of foods.
Tuesday	2:00–4:00	Lecture: Foods containing nitrogen. Demonstration of milk, egg, cheese, or vegetable protein dishes.
Wednesday	2:00–4:00	Lecture: Meats and meat substitutes. Demonstration of various modes of preparation.
Thursday	2:00–4:00	Lecture: Carbohydrate foods. Demonstration of breads or cereals and starchy vegetables.
Friday	2:00–4:00	Lecture: Water and mineral salts in the diet. Demonstration of salads for a balanced meal.

Program for a Movable School with Two Instructors

Health and Home Problems

Monday	1:30	Domestic science in its various relations to the home.
	2:30	Demonstration: The bed room prepared for the sick.
Tuesday	10:00	Essentials in home decoration.
	11:00	First aid (for camp fire girls).
	1:30	Fabrics in their relation to home uses.
	2:30	Demonstration: Invalid cookery.
Wednesday	10:00	Home sanitation.
	11:00	Selection and care of clothing.
	1:30	First aid to mothers.
	2:30	Planning meals—Food values illustrated by charts and exhibits.
Thursday	10:00	Helpful devices for home care of the sick.
	11:00	Tissue building foods.
	1:30	Personal hygiene.
	2:30	Demonstration: Dishes rich in tissue builders.
Friday	10:00	Carbohydrates and fats in the diet.
	11:00	The dress, care, and feeding of infants.
	1:30	Demonstration of dishes supplying water and mineral salts to the diet.
	3:30	Health laws and state aids.

Single Lectures

Any one of the following list of subjects will be treated in a single lecture:

The care of food in the home.
The planning of meals.
The cost of living.
Infant foods and feeding.
Food for the child.
The composition and cooking of meals.
The use of vegetables as food.
The lunch basket.
Selection of textiles for the home.
Suggestions for home dressmaking—use of patterns.
Color and furnishing and their relation to interior decoration.
The well dressed woman.
Planning the farm house.
The bedroom and its furnishings.
The dining room and its appointments.
Household science and the home.
Essentials and non-essentials in good housekeeping.
How to improve our homes.
System in housekeeping.
Menus for wheatless days.
Menus for meatless days.
War breads.
Canning and preserving.
Drying foods; use of dried foods.
Conservation of textiles.
Renovating and making over garments.

PROGRAM OF DEMONSTRATION LECTURES WITH THE HOME ECONOMICS CAR

MONDAY

2:00– 4:00—Kitchen Equipment.
The Gasoline Engine and Housework.
7:30 —The Plan and purpose of the Car (Illustrated)

TUESDAY

9:30–11:30—Selection of Utensils and Furnishings from the Standpoint of Ease in Caring for Them; Cleaning of Metals.
The Hydro-pneumatic Water System; Tanks, Pumps and Piping.
2:00 —The Service Part of the House: the Kitchen and Dining Room.
7:30 —A Proper Water System and How to Use it in a Country Home.

WEDNESDAY

9:30–11:30—Household Appliances, Advantages and Disadvantages.
Septic Tanks; Chemical Sewage Disposal Systems; Sanitary Floor Finishes; Sanitary Walls; Costs and Comparisons.
2:00 —The Bed Room and Its Furnishings: Color Schemes—Walls, Floors; Windows—Screens, Draperies; Beds—Springs, Covers, Mattress.
7:30 —Sanitation of the Home Yard: Sewage Disposal; Septic Tanks.

THURSDAY

9:30–11:30—The Saving of Energy, Time, and Money in the Selection of Clothes and Household Linens. Laundry Problems; Removal of Stains.
Lighting Systems: Types of Kerosene, Gasolene, Blau Gas, Acetylene, and Electric Lights.
2:00 —The Living Room and Its Appointments: Color Schemes; Furniture and Rugs; Library; Music.
7:30 —Heat, Light, and Ventilation for the Farm Home.

FRIDAY

9:30–11:30—The Business of Housekeeping; System in Housework.
Methods of Fly Prevention. Helps in Cleaning: Vacuum Cleaner; Carpet Sweeper; Washing Machine· Ironing Machine.
2:00 —The Planning of Meals.
7:30 —The Household Power Plant.

County Advisers	*County*
Jessie Faye Edmundson	Kankakee

PART VI

EXPERIMENT STATIONS AND OTHER SCIENTIFIC BUREAUS

THE AGRICULTURAL EXPERIMENT STATION

Edmund Janes James, Ph.D., LL.D., President of the University

STAFF[1]

Eugene Davenport, M.Agr., LL.D., *Director*
Cyril George Hopkins, Ph.D., *Vice-Director*
Stephen Alfred Forbes, Ph.D., *Consulting Entomologist*
Henry Lewis Rietz, Ph.D., *Statistician*
Anna Cushman Glover, *Secretary*
In Agronomy
  Cyril George Hopkins, Ph.D., *Chief, Agronomy and Chemistry*
  Jeremiah George Mosier, B.S., *Chief, Soil Physics*
  Louie Henrie Smith, Ph.D., *Chief, Plant Breeding*
  Robert Stewart, Ph.D., *Associate Chief, Soil Fertility*
  William Leonidas Burlison, Ph.D., *Associate Chief, Crop Production*
  Axel Ferdinand Gustafson, M.S., *Assistant Chief, Soil Physics*
  Ernest Van Alstine, M.S., *Assistant Chief, Soils Laboratory*
  Albert Lemuel Whiting, Ph.D., *Assistant Chief, Soil Biology*
  Joseph Paul Aumer, B.S., *Associate, Soil Analysis*
  Frederick Charles Bauer, B.S., *Associate, Soil Fertility*
  Ward Hanson Sachs, M.A., *Associate, Soil Analysis*
  Henry Clyde Wheeler, B.S., *Associate, Soil Physics*
  John Ezra Whitchurch, B.S., *Associate, Soil Fertility*
  Frank William Garrett, B.S., *Associate, Soil Fertility*
  Forrest Adison Fisher, B.S., *Associate, Soil Physics*
  Frank Archibald Wyatt, Ph.D., *Associate, Soil Fertility*
  Frederick Martin William Wascher, B.S., *Associate, Soil Physics*
  Wilbur Roy Leighty, B.S., *First Assistant, Soil Analysis*
  Edward Harvey Walworth, M.S., *First Assistant, Crop Production*
  Howard John Snider, B.S., *First Assistant, Soil Fertility*
  Warren Rippey Schoonover,[2] M.S., *First Assistant, Soil Biology*
  Harry Charles Gilkerson, B.S., *First Assistant, Soil Fertility*
  George Edward Gentle, B.S., *First Assistant, Soil Physics*
  Harrison Fred Theodore Fahrnkopf, B.S., *First Assistant, Soil Fertility*
  Orland I Ellis, B.S., *First Assistant, Soil Physics*
  Robert William Dickenson,[2] B.S., *First Assistant, Soil Physics*
  Arthur Maxwell Brunson,[3] B.S., *First Assistant, Plant Breeding*
  Henry A de Werff,[4] B.S., *First Assistant, Soil Physics*
  Hiram Foley Tuttle, M.S., *First Assistant, Soil Physics*
  Roy Hansen, B.S., *First Assistant, Soil Biology*
  Edward Fritchoff Torgerson, B.S., *First Assistant, Soil Physics*
  Washington Irving Brookson, M.S., *Assistant, Crop Production*

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[1] The Station Staff includes only those scientific workers who have been recommended by the President and appointed by the Board of Trustees.
[2] Absent for military service.
[3] Transferred to the School of Military Aeronautics as instructor in wireless telegraphy.
[4] Resigned for military service.

Clyde Morris Linsley,[1] B.S., *Assistant, Soil Fertility*
Everett E Glick B.S., *Assistant, Soil Fertility*
Charles Thurman Hufford, B.S., *Assistant, Soil Physics*
James Leonard St. John, M.S., *Assistant, Soil Analysis*
John Pieper, M.S., *Assistant, Crop Production*
George Harlan Dungan, B.S., *Assistant Crop Production*
Willem Rudolfs, L.K., *Assistant, Soil Analysis*
Harry Clifford Hildebolt,[2] B.S., *Assistant, Soil Fertility*

In Animal Husbandry

Herbert Windsor Mumford, B.S., *Chief, Animal Husbandry*
Harry Sands Grindley, D.Sc., *Chief, Animal Nutrition*
Walter Castella Coffey, M.S., *Chief, Sheep Husbandry*
Robert Graham, D.V.M., B.S. in Agriculture, *Chief, Animal Pathology*
James Lloyd Edmonds, B.S., *Assistant Chief, Horse Husbandry*
Henry Perly Rusk, M.S., *Assistant Chief, Cattle Husbandry*
John A Detlefsen, D.Sc., *Assistant Chief, Genetics*
Harold Hanson Mitchell, Ph.D., *Associate, Animal Nutrition*
William Herschel Smith, M.S., *Associate, Animal Husbandry*
Wilbur Jerome Carmichael, M.S., *Associate, Animal Husbandry*
Sleeter Bull, M.S., *Associate, Animal Nutrition*
Roy Harold Wilcox, B.S., *Associate, Animal Husbandry*
Elmer Roberts, Ph.D., *First Assistant, Genetics*
James Wilbur Whisenand, M.S., *First Assistant, Animal Husbandry*
Claude Harper,[3] B.S., *First Assistant, Animal Husbandry*
Earl Kirkwood Augustus, B.S., *First Assistant, Animal Husbandry*
Mary Helen Keith, A.M., *Assistant, Animal Nutrition*
John Benjamin Rice, B.S., *Assistant, Animal Husbandry*
Henry Carl Eckstein, A.B., *Assistant, Animal Nutrition*
James Bruce Henderson,[3] M.S., *Assistant, Animal Husbandry*
Worth Arthur Allison, M.S., *Assistant, Animal Husbandry*
Howard Marion Chiles, B.S., *Assistant, Animal Nutrition*

In Dairy Husbandry

Harry Alexis Harding, Ph.D., *Chief, Dairy Bacteriology*
Nelson William Hepburn, M.S., *Assistant Chief, Dairy Manufactures*
Martin John Prucha, Ph.D., *Assistant Chief, Dairy Bacteriology*
Ray Stillman Hulce,[3] M.S., *Associate, Milk Production*
Harrison August Ruehe, M.S., *Associate, Dairy Manufactures*
Paul William Allen, M.S., *Associate, Dairy Bacteriology*
Frank Ashmore Pearson, B.S.A., *Associate, Dairy Husbandry*
Oliver Ralph Overman, M.A., *Associate, Dairy Chemistry*
James D Brew, B.S., *Associate, Dairy Bacteriology*
Frank Turner,[2] B.S., *First Assistant, Dairy Manufactures*
Ernest McChesney Clark, B.S., *First Assistant, Dairy Production*
Leighton J True, B.S., *First Assistant, Dairy Manufactures*
Harold Kirk Rulison,[2] B.S., *Assistant, Dairy Husbandry*
Chris Simeon Rhode, B.S., *Assistant, Dairy Husbandry*
Harry Albert Ross, B.S., *Assistant, Dairy Economics*
Murray Reed Benedict, B.S., *Assistant, Dairy Husbandry*

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[1] Resigned for military service.
[2] Absent for military service.
[3] Resigned.

In Farm Organization and Management

Walter Frederick Handschin, B.S., *Assistant Chief, Farm Organization and Management*

James Burton Andrews, B.S., *First Assistant, Farm Organization and Management*

Horticulture (Station Staff)

Joseph Cullen Blair, M.S., *Chief, Horticulture*
John William Lloyd, Ph.D., *Chief, Olericulture*
Charles Spencer Crandall, M.S., *Chief, Plant Breeding*
Herman Bernard Dorner, M.S., *Assistant Chief, Floriculture*
Bethel Stewart Pickett, M.S., *Assistant Chief, Pomology*
Ernest Winfield Bailey, M.S., *Assistant Chief, Pomology*
Charles Elmer Durst, M.S., *Assistant Chief, Olericulture*
Warren Albert Ruth, A.M., *Associate, Horticultural Chemistry*
Simeon James Bole, A.M., *Associate, Pomology*
Harry Warren Anderson, Ph.D., *Associate, Pomology*
Philip Augustus Lehenbauer, Ph.D., *Associate, Plant Physiology*
Duane Taylor Englis, Ph.D., *Associate, Floricultural Chemistry*
Alfred Joseph Gunderson, B.S., *Associate, Pomology*
William Sanford Brock, A.B., B.S., *First Assistant, Pomology*
Howard Dexter Brown, B.S., *First Assistant, Olericulture*
Howard Russel Stanford, B.S., *First Assistant, Plant Breeding*
Edward George Lauterbach, B.S., *Assistant, Floriculture*
Harry Warren Day, B.S., *Assistant, Olericulture*
James Hutchinson, *Assistant, Floriculture*
Stanley William Hall, B.S., *Assistant, Floriculture*
Walter Pavy James, B.S., *Assistant, Pomology*
Julia Alberta Harper, A.B., *Editorial Assistant*

By an act approved March 2, 1887, the national government appropriated $15,000 a year to each state for the purpose of establishing and maintaining, in connection with the colleges founded upon the congressional act of 1862, agricultural experiment stations, "to aid in acquiring and diffusing among the people of the United States useful and practical information on subjects connected with agriculture, and to promote scientific investigation and experiment respecting the principles and applications of agricultural science." Under this provision the *Agricultural Experiment Station of the University of Illinois* was founded in 1888 and placed under the direction of the Trustees of the University; a part of the University farm, with buildings, was assigned for its use.

The federal grant has since been increased to $30,000 a year. This is supplemented by state appropriations which make an aggregate fund of nearly a quarter of a million dollars devoted wholly to research in agriculture.

Investigations are conducted in the growing and marketing of orchard fruits, the methods of production of meats and of dairy goods, the principles of animal breeding and of nutrition, and the improvement of the economic production of crops. All the principal types of soil of the State are being studied in the laboratory under glass and in the field. A soil survey is in progress which when finished will map and describe the soil of every farm of the State down to an area of ten acres. Between forty and fifty fields and orchards are operated in various portions of the State for the study of local problems, and assistants are constantly on the road to conduct experiments or to give instruction to producer or consumer. The results of investigation are published in bulletins, which are issued in editions of 40,000 and distributed free of charge.

Much of this work is of interest to students, especially of graduate grade, and it is freely available for this purpose, so far as is consistent with the interests of the Station.

THE ENGINEERING EXPERIMENT STATION

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT

STAFF

CHARLES RUSS RICHARDS, M.E., M.M.E., *Director*
CLARENCE STANLEY SALE, B.S., *Assistant to the Director*
THE HEADS OF THE DEPARTMENTS OF THE COLLEGE OF ENGINEERING

Special Investigators

HERBERT FISHER MOORE, M.M.E., *Research Professor of Engineering Materials*
SAMUEL WILSON PARR, M.S., *Professor of Applied Chemistry*
WILLIS APPLEFORD SLATER,[1] M.S., C.E., *Research Assistant Professor of Applied Mechanics*
CLINTON MASON YOUNG, B.S., E.M., *Assistant Professor of Mining Research, Coal Mining Investigations*
ALONZO PLUMSTED KRATZ, M.S., *Research Associate in Mechanical Engineering*
HARRISON FREDERICK GONNERMAN, M.S., *Research Associate in Theoretical and Applied Mechanics*
LEROY ALONZO WILSON,[2] M.E., M.M.E., *Research Assistant in Mechanical Engineering*
OTTO STERNOFF BEYER, JR.,[2] M.E., *Research Assistant in Railway Engineering*
HAROLD HOUGHTON DUNN, M.S., *Research Associate in Railway Engineering*
WALTER ARTHUR GATWARD, M.S., *Research Assistant in Electrical Engineering*
THOMAS ERNEST LAYNG, A.B., A.M., Ph.D., *Research Assistant in Chemistry*
FRANK FARNSWORTH FOOTITT, A.B., M.S., *Research Assistant in Ceramic Engineering*
JOSIAH FRANK WARD, C.E., *Research Assistant in Theoretical and Applied Mechanics*

Research Graduate Assistants

ERNEST EDWARD CHARLTON, A.B., M.S., *Chemistry*
ARCHIBALD CHRISTIAN KNAUSS, B.S., C.E., *Theoretical and Applied Mechanics*
WILLIAM RIGA LYON, B.S., *Electrical Engineering*
FRANK GUSTAVE WAHLEN, B.S., *Mechanical Engineering*
JAMES RUFUS WATKINS, B.C.E., *Theoretical and Applied Mechanics*
CHARLES STANLEY GREENBAUM, A.B., *Ceramic Engineering*
TERRENCE ONAS WESTHAFER, A.B., M.S., *Chemistry*

The Engineering Experiment Station was established by action of the Board of Trustees, December 8, 1903. Its purposes are the stimulation and elevation of engineering education, and the study of problems of special importance to professional engineers, and to the manufacturing, railway, mining, and industrial interests of the State and the country.

The control of the Station is vested in the heads of the several departments of the College of Engineering. These constitute the Station Staff, and, with the Director, determine the character and extent of the investigations to be undertaken.

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[1] On leave.
[2] On leave for military service.

Up to the present time 101 bulletins and five circulars of value to engineering science have been published. The experiments have related chiefly to tests of high-speed tool steels; the resistance of tubes to collapse; the holding power of railroad spikes; the effect of scale on heat transmission; roof trusses; base and bearing plates in columns and beams; stresses in chain links; extensions of the Dewey decimal system of classification; tests of electric lamps; lighting country homes by private electric plants; street lighting; high steam pressures in locomotive service; rate of formation of carbon monoxide in gas producers; fuel tests; the weathering of coal and the spontaneous combustion of coal; thermal conductivity of fireclay; heat transmissions; freight train resistance; tests of a suction gas producer; tests of concrete; reinforced concrete beams and columns; tests of cast-iron and reinforced concrete culvert pipe; tests of brick columns and terra cotta block columns; tests of timber beams; tests of built-up columns under load; tests to determine the resistance to flow through locomotive water columns; tests of nickel-steel riveted joints; strength of rolled zinc; inductance of coils; mechanical stresses in transmission lines; starting currents of transformers; superheated steam in locomotive service; a new analysis of the cylinder performance of reciprocating engines; effects of cold weather upon train resistance and tonnage rating; coking of coal at low temperatures; characteristics and limitations of the series transformer; electron theory of magnetism; entropy-temperature and transmission diagrams for air; tests of reinforced concrete buildings under load; the steam consumption of locomotive engines from indicator diagrams; properties of saturated and super-heated ammonia vapor; reinforced concrete wall footings and column footings; strength of I-beams in flexture; coal washing in Illinois; mortar-making qualities of Illinois sands; bond between concrete and steel; magnetic and other properties of electrolytic iron melted in vacuo; acoustics of auditoriums; tractive resistance of a 28-ton electric car; thermal properties of steam; analysis of coal with phenol as solvent; the effect of boron upon the magnetic and other properties of electrolytic iron melted in vacuo; a study of boiler losses; the coking of coal at low temperatures with special reference to the properties and composition of the products; wind stresses in the steel frames of office buildings; influence of temperature on the strength of concrete; laboratory tests of a consolidation locomotive; magnetic and other properties of iron-silicon alloys melted in vacuo; tests of reinforced concrete flat slab structures; strength and stiffness of steel under biaxial loading; the strength of I-beams and girders; correction of echoes in the Auditorium, University of Illinois; dry preparation of bituminous coal at Illinois mines; specific gravity studies of Illinois coals; graphical methods in electric motor car calculations; subsidence resulting from mining; studies of the alloys of chromium, copper and nickel; the magnetic properties of iron-aluminum alloys; the effect of mouthpieces on the flow of water through a submerged short pipe; effects of storage on the properties of coal; tests of oxyacetylene welded plates; the economical purchase and use of coal in heating homes; the collapse of short thin tubes; the utilization of pyrite from Illinois coal; the percentage of extraction of bituminous coal; and comparative tests of six sizes of Illinois coal on a Mikado locomotive.

THE NATURAL HISTORY SURVEY

STAFF

Stephen Alfred Forbes, Ph.D., LL.D., *Chief*
Charles Arthur Hart,[1] *Systematic Entomologist*
Robert Earl Richardson, A.M., *Biologist in charge of Biological Station*
Victor Ernest Shelford, Ph.D., *Biologist in charge of Research Laboratories*
Mary Jane Snyder, *Secretary*
Charles Edwin Janvrin, Ph.B., B.L.S., *Librarian*

In 1885 the General Assembly passed an act transferring the State Laboratory of Natural History from the Illinois State Normal University to the University of Illinois. This laboratory was created for the purpose of making a natural history survey of the State, made with principal reference to educational and economic interests, its results to be published in a series of bulletins and reports, and for the allied purpose of furnishing specimens illustrative of the flora and fauna of the State to the public schools, the state educational institutions, and the State museum. For these purposes direct appropriations are made by the legislature from session to session. Material of all classes has been collected in all parts of the State, field observations and experiments have been conducted, extending over many years, and fifteen volumes have been published in the form of bulletins and final reports.

The most important problem on which the work of the Survey is at present concentrated is the effect of drainage operations, sewage contaminations, and other results of industrial occupancy upon the general system of life in our principal rivers. It is also engaged on a critical study of the system of life in the lakes of northeastern Illinois.

In 1917 the State Laboratory of Natural History became a division of the State Department of Registration and Education, under the title of the Natural History Survey of Illinois, and was placed in charge of a board of advisers of which the President of the University is a member *ex officio*.

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[1] Deceased, February 17, 1918.

THE ENTOMOLOGICAL SURVEY

STAFF

Stephen Alfred Forbes, Ph.D., LL.D., *Chief*
Charles Arthur Hart,[1] *Systematic Entomologist*
Wesley Pillsbury Flint, *Assistant for Central Illinois*
John Russell Malloch, *Illustrator and Custodian*
Edward Michael Schalck, A.B., *Assistant for Northern Illinois*
Stewart C Chandler, B.S., *Assistant for Southern Illinois*
Charles Stockman Spooner, A.M., *Entomological Assistant*

The office of the state entomologist, established by act of the legislature in 1867, was transferred to the University of Illinois in 1885 and permanently located there by legislative enactment in 1899, the Trustees of the University being required by that act to provide for the entomologist and his assistants such office and laboratory rooms as may be necessary to the performance of their duties.

At the legislative session of 1917 the functions of this office were assigned to the State Department of Registration and Education and committed to a division of that Department known as the Entomological Survey of the State. It is the duty of this Survey to investigate the entomology of the State; to investigate all insects dangerous or injurious to agricultural or horticultural plants and crops, to live stock, to nursery trees and plants, to the products of the truck farm and vegetable garden, to shade trees and other ornamental vegetation of cities and villages, to the products of the mills and the contents of warehouses, and all insects injurious or dangerous to the public health; to conduct experiments with methods for the prevention, arrest, abatement, and control of insects injurious to persons or property; to instruct the people, by lecture, demonstration, or bulletin, in the best methods of preserving and protecting their property and health against injuries by insects; and to publish, from time to time, articles on the injurious and beneficial insects of the State. During the fifty years of its separate existence, the state entomologist's office published twenty-nine reports on the injurious and beneficial insects of the State, fifteen of them after its establishment at the University of Illinois.

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[1] Deceased, February 17, 1918.

THE STATE WATER SURVEY

STAFF

EDWARD BARTOW,[1] Ph.D., *Chief*
WILSON FORSYTH MONFORT, A.M., *Acting Professor*
GEORGE CONRAD HABERMEYER, B.S., *Engineer*
ARTHUR NORTON BENNETT,[1] M.S., *Chemist*
JOHN FRANCIS SCHNELLBACH, B.S., *Engineer*
JOHN MILTON HEFFELFINGER, B.S., *Engineer*
EDMAN GREENFIELD, M.S., *Bacteriologist*
WILLIAM DURRELL HATFIELD, M.S., *Chemist*
FRIEND LEE MICKLE, A.B., *Chemist*
SIDNEY DALE KIRKPATRICK,[1] B.S., *Chemist*
GERALD CLIFFORD BAKER, A.B., *Chemist*
EUGENE PHILIP FAGER, A.B., *Chemist*
LAURENCE RIGHTER TAYLOR, *Assistant*
VERNE DEVERE CHARLESTON, *Assistant*
DAVID FORD MCFARLAND, Ph.D., *Summer Assistant, 1917*
MELVIN LORENIUS ENGER, M.S., C.E., *Summer Assistant, 1917*
VIRGIL R FLEMING, B.S., *Summer Assistant, 1917*
FRED WILBUR TANNER, Ph.D., *Summer Assistant, 1917*
CARL CLARENCE LARSON, *Summer Assistant, 1917*

A chemical survey of the waters of the State was begun by the State Water Survey Division of the Department of Chemistry of the University of Illinois in the latter part of September, 1895. In 1897 the legislature authorized the continuance of the work and directed the Trustees of the University to establish a chemical and biological survey of the waters of the State. In 1911 the legislature made an increased appropriation and imposed additional duties on the State Water Survey, authorizing it to employ field men to inspect water supplies and watersheds, and to make, free of charge, sanitary examination of water for citizens of Illinois. In July, 1917, with changes in the state government, the State Water Survey became a Division of the Department of Registration and Education of the State of Illinois. The Survey has collected data concerning water supplies and sewerage systems and many watersheds, making chemical and bacteriological examinations to demonstrate the sanitary condition of water supplies and streams, and to determine standards of purity for drinking waters. The Survey advises municipal authorities how best to obtain and conserve an adequate supply of pure water for domestic and manufacturing purposes. Since 1915 a sewage experimental station has been maintained.

The work of the Survey is partly under the direction of the Department of Registration and Education of the State of Illinois, and partly under the direction of the Department of Chemistry of the University of Illinois. Offices and special laboratories are equipped in the Chemistry Building for conducting the work.

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[1] Absent on leave.

THE STATE GEOLOGICAL SURVEY

STAFF

Frank Walbridge DeWolf, B.S., *Chief*, Urbana

Edward Bartow, Ph.D., *Consulting Chemist in Water Analysis*, University of Illinois, Urbana

Ulysses Sherman Grant, Ph.D., *Consulting Geologist in Lead and Zinc Studies*, Northwestern University, Evanston

Samuel Wilson Parr, M.S., *Consulting Chemist in Coal Investigations*, University of Illinois, Urbana

Rollin D Salisbury, A.M., LL.D., *Consulting Geologist in Preparation of Educational Series*, University of Chicago, Chicago

Thomas Edmund Savage, Ph.D., *Geologist*, University of Illinois, Urbana

Stuart Weller, Ph.D., *Geologist*, University of Chicago, Chicago

Gilbert H Cady, A.M., *Geologist*, Urbana

Merle L Nebel, Ph.D., *Geologist*, Urbana

Nellie O Barrett, B.S., *Assistant Geologist*, Urbana

Henrietta P Christensen, B.S., *Assistant Geologist*, Urbana

Charles Butts, M.S., *Assistant Geologist in Cooperative Surveys*, Urbana, Ill., and Washington, D. C.

Justa M Lindgren, A.M., *Chemist*, Urbana

W H Herron, B.S., *Geographer in charge of Topographical Surveys in Illinois*, Urbana, Ill., and Washington, D. C.

The Forty-fourth General Assembly passed an act, in force July 1, 1905, providing for the establishment at the University of Illinois of the *State Geological Survey*. The Survey is now in the Department of Registration and Education of the State of Illinois, under the control of a Board of Advisers, of which the President of the University is a member *ex officio*.

The purpose of the Survey is primarily the study and exploration of the mineral resources of Illinois. Field parties are organized for the investigation of oil, clay, coal, stone, artesian water, cement materials, and road materials, and for general scientific investigations. The Survey is charged also with the duty of making a complete topographical and geological survey of the State. Topographical and geological surveys are now being carried on in cooperation with the United States Geological Survey. These will lead to the publication of a series of bulletins and maps, eventually covering the entire State.

The Forty-fifth General Assembly further charges the Commission with the duty of making surveys and studies of lands subject to overflow, with a view to their reclamation. Work has been carried on in cooperation with the Rivers and Lakes Commission, the United States Geological Survey, and the United States Department of Agriculture, along the Sangamon, Kaskaskia, Big Muddy, Little Wabash, Embarrass, Spoon, Pecatonica, and Saline rivers. Reports have been issued on the Little Wabash, Kaskaskia, Spoon, and Embarrass.

The laboratory work is done in connection with various department laboratories of the University. The equipment includes a working library, maps, and a growing collection, illustrating the geological and the economical resources of the State.

Forty-four bulletins, a monograph, and a large number of maps have been published. Many temporary assistants besides the regular corps are employed each summer.

Under an agreement between the State Geological Survey Division and the Engineering Experiment Station on the one hand, and the United States Bureau of Mines on the other, a branch station has been located at Urbana for a cooperative investigation of the Illinois coal mining industry.

THE BOARD OF EXAMINERS IN ACCOUNTANCY

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT

BOARD OF EXAMINERS

JAMES HALL, C.P.A., *Chairman*, Chicago
NATHAN WILLIAM MACCHESNEY, A.B., LL.B., Chicago
ALBERT T BACON, C.P.A., *Secretary*, Chicago

UNIVERSITY COMMITTEE

DAVID KINLEY, Ph.D., LL.D., *Chairman*
CHARLES MAXWELL MCCONN, A.M., *Secretary*
EDWARD HARRIS DECKER, A.B., LL.B.

By a law passed in 1903 the State University is made an examining board of applicants for certificates as certified public accountants. To carry out the provisions of the law the Board of Trustees have appointed a board of three examiners to prepare, conduct, and grade examinations, and a University committee to conduct the routine work. Under the law one examination must be held each year in May, but examinations have been held also in November or December of each year in which there were a sufficient number of applicants. All the examinations thus far given have been held in the city of Chicago.

Applicants for the certificate of Certified Public Accountant are required to pass examinations in the theory of accounts, commercial law, auditing, and practical accounting.

The Illinois Society of Certified Public Accountants offers annually a gold medal and a silver medal to be awarded to the persons passing the C. P. A. examination with the highest total marking in all subjects and with the second highest total marking in all subjects respectively.

COOPERATIVE INVESTIGATION OF PROBLEMS OF ILLINOIS MINERAL INDUSTRIES

EDMUND JANES JAMES, Ph.D., LL.D., PRESIDENT

STAFF

Engineering Experiment Station

CHARLES RUSS RICHARDS, M.E., M.M.E., *Director*
HARRY HARKNESS STOEK, B.S., E.M., *Professor of Mining Engineering*
CLINTON MASON YOUNG, B.S., E.M., *Assistant Professor of Mining Research*
SPECIAL MINING ENGINEERS AND FIELD SAMPLERS

State Geological Survey

FRANK WALBRIDGE DEWOLF, B.S., *Director*
GILBERT HAVEN CADY, A.B., M.S., *Geologist*
THOMAS EDMUND SAVAGE, Ph.D., *Geologist*
MERLE LOUIS NEBEL, Ph.D., *Geologist*

United States Bureau of Mines

VAN H MANNING, A.B., *Director*, Washington, D. C.
GEORGE S RICE, E.M., *Chief Mining Engineer*, Washington, D. C.
DORSEY A LYON, Ph.D., *Supervisor of Stations*, Washington, D. C.
ELMER A HOLBROOK, B.S., E.M., *Supervising Mining Engineer and Metallurgist*, Urbana, Illinois
WILLIAM B PLANK, B.S., E.M., *Mining Engineer*, Urbana, Illinois
——————— ———————, *Assistant Mining Engineer*, Urbana, Illinois
FRANK K OVITZ, B.S., *Chemist*, Urbana, Illinois.

The Engineering Experiment Station through the department of mining engineering of the University of Illinois, the State Geological Survey, and the United States Bureau of Mines are cooperating throughout the State in investigations and dissemination of information, with a view to improving conditions in the mining, quarrying, metallurgical, and other mineral industries, safeguarding life among employees, preventing unnecessary waste of resources, and otherwise contributing to the advancement of these industries, under authority granted by the Forty-seventh General Assembly.

The University, through the Engineering Experiment Station, furnishes officers and laboratory facilities for the Bureau in Urbana, and takes part, through the department of mining engineering, both in field work and in publication.

The State Geological Survey adds to the cooperation a staff of geologists who are giving particular attention to the mineral resources of the State and other geological problems.

The United States Bureau of Mines has established a mining experiment station at Urbana, with offices in the Ceramic Engineering Building, which are headquarters for the technical staff of Bureau engineers working in this district.

Through the cooperation of the three contracting parties, a staff of trained engineers, geologists, and metallurgists is at the disposal of the mining and metallurgical industries of Illinois.

PART VII

THE U. S. SCHOOL OF MILITARY AERONAUTICS

THE U. S. SCHOOL OF MILITARY AERONAUTICS

ADMINISTRATION AND HEADS OF DEPARTMENTS

EDMUND JANES JAMES, Ph.D., LL.D., *President of the University*
DAVID KINLEY, Ph.D., LL.D., *Vice-President of the University; Executive Head, S.M.A.*

WILLIAM F PEARSON, Major Signal Corps, U.S.A., *Commandant*
F D CRAWSHAW, M.E., *President of the Academic Board*
W W LANAHAN, Captain, Signal Corps, U.S.A., *Adjutant*
M S MASON, M.S., *Secretary of Academic Board*
JOHN P HERMES, 1st Lt., R.C.A.S.S.C., *Quartermaster*
J H FINCH, Captain, Medical Reserve Corps, *Surgeon*
W S SHIMER, Captain, Medical Reserve Corps, *Assistant Surgeon*
C A PATTERSON, 1st Lt., Dental Reserve Corps, *Dental Surgeon*
GEORGE W GIBSON, 2d Lt., R.C.A.S.S.C., *In charge, Department of Tactics*
W H HYSLOP, A.M., *Head of Signaling and Radio*
M S MASON, M.S., *Head of Gunnery*
G W PICKELS, C.E., *Head of Aids to Flight*
W PENN LUKENS, M.S., *Head of Airplanes*
L A WILSON, M.M.E., *Head of Engines*
J R FLEMING E.M. *Head of Aerial Observation*

The University of Illinois offered the use of its buildings and equipment for war preparation work to the Government on February 7, 1917. Acceptance of this offer was made on February 10, 1917. The United States School of Military Aeronautics at the University of Illinois was opened on May 21, 1917.

The curriculum provides for an eight weeks' course of instruction in those subjects which are considered fundamental to the training of an aviator. One squadron, or class, enters each week and one squadron graduates each week.

The subjects are arranged by departments, of which there are seven, as indicated in the above list of Heads of Departments.

The School is divided into two wings:

A Junior Wing of three weeks duration, in which stress is laid on instruction in military studies (i. e., army regulations, military law, military sanitation and hygiene, organization of armies, etc.) and in machine gunnery and telegraphy, together with practical work in military drill.

The Senior Wing, comprising the last five weeks of the course, is devoted more particularly to lectures and laboratory work on signalling, gunnery, aerial tactics, bombs and bombing, theory of flight, cross country flying, map reading, meteorology, night flying, instruments and compasses, construction nomenclature, rigging, care and repair of airplanes, internal combustion engines and their construction, and finally instruction in methods of cooperation between the aircraft and artillery and infantry.

The total number of hours of instruction in the course is 312; that is, 39 hours a week of actual instruction, inclusive of lectures, laboratory, and drill; the work is of an intensive nature, designed to give the candidate for an Aviation Pilot's License a thoro training in the various branches which will be included in his daily work as an aviator No instruction whatever is given in practical flying, that being reserved for the Aviation Schools.

Members of the School, known as cadets, are graded each week on both laboratory and lecture work. Frequent quizzes are given and final examinations are held in each subject at the time the subject is completed. In addition, an examination is given at the end of the third week. In case of unsatisfactory work a cadet may be ordered to repeat one week on the recommendation of the Academic Board and the approval of the Commandant. In no case is a cadet permitted to continue in the School more than nine weeks; he may be recommended to the Commandant by the Academic Board for discharge at any time, in which case the Academic Board furnishes the Commandant a complete scholastic record of the cadet concerned.

A cadet, who is under strict military discipline, is ordered here on active duty usually as a first class private in the Signal Enlisted Reserve Corps. On satisfactory completion of the course, the cadet is certified as having graduated satisfactorily or with honor. The schedule calls for a seven-hour day of class work, including drill, excepting on Saturday, the hours of duty being 5:30 a. m. to 9:30 p. m., with only short periods for recreation.

Instruction is given at present in certain rooms in several of the University buildings. Centralization for instruction is attempted by using rooms and buildings at the north end of the campus only. The Gymnasium Annex (old Armory) is used entirely for laboratory work. To this building an annex is to be added, giving an additional laboratory floor area of 7,200 square feet. The School will be increased in size if the Government so requests, when additional University buildings will be requisitioned or other buildings of a temporary character will be constructed.

Cadets are housed in the Y. M. C. A. building, known as Barracks No. 1, and in the Women's Residence Hall, known as Barracks No. 2. Mess is provided in each of these buildings. Cadets have access to the University libraries and special library facilities are provided in each barracks. The Engineering College Library has arranged a special department of books and periodicals on aeronautics.

It is the purpose of the University of Illinois to furnish every possible facility to promote the work of the School as directed by the War Department. The School has doubled in size during the first semester months of the academic year 1917–18.

February 11, 1918.

PART VIII
LIST OF STUDENTS, ETC.
(1917-1918)

LIST OF STUDENTS, 1917-18

THE GRADUATE SCHOOL

Alexander, John Alva—Education A.B., 1916	SS		*Amorita, Oklahoma*
Allen, Paul William—Dairy Bacteriology B.S. (*St. Lawrence Univ.*), 1910 M.S. (*Cornell Univ.*), 1914	SS	* †	*Cortland, New York*
Allison, Worth Arthur—Animal Husbandry B.S., A.B., 1916 M.S., 1917		* †	*Charleston*
Amsterdam, Harry—Philosophy A.B. (*Lake Forest Coll.*), 1915 A.M., 1916		* †	*Zeludok, Vilno, Russia*
Anders, Edwin—Political Science A.B., 1905		* †	*Newark*
Andrews, Harry Lee—Zoology A.B., 1916	SS	*	*Chicago*
Andrews, James Burton—Animal Husbandry B S., 1913	SS	*	*Urbana*
Arnold, Rossleene Merle—Physiological Chemistry A.B., (*Oberlin Coll.*), 1916		* †	*Oberlin, Ohio*
Ashbaugh, Reginald John—German A.B. (*Univ. of Chicago*), 1915	SS		*Avalon, Missouri*
Ashman, Richard—Physiology Litt.B. (*Rutger's Coll.*), 1915		* †	*Champaign*
Augustus, Earl Kirkwood—Animal Husbandry B.S., 1914		* †	*Urbana*
Austin, James Curtiss—Latin A.B. (*Syracuse Univ.*), 1916		* †	*Fulton, New York*
Austin, Miner Manly—Chemistry A.B. (*Lawrence Coll.*), 1916		* †	*Waterloo, Wisconsin*
Bach y Rita, Pedro—Romance Master Superior (*Superior Normal, Barcelona, Spain*)		* †	*Barcelona, Spain*
Baker, Gerald Clifford—Chemistry A.B., 1917		* †	*Bement*
Bamesberger, Velda Christena—Education Work for A.B. completed, 1918		* †	*Urbana*
Bannister, Bryant[1]—Mechanical Engineering B.S., 1911			*Kewanee*
Barnes, Otis Avery—Chemistry B.S., 1916		* †	*Auburn*
Barrett, Nellie Okla—Geology B.S. (*Univ. of Chicago*), 1916		* †	*Chicago*
Battey, Zilpha Curtis—Household Science A.B., 1917		* †	*Tiskilwa*
Bauer, Frederick Charles—Agronomy B.S., 1909		* †	*Champaign*
Bayley, Paul Levern—Experimental Physics A.B. (*Univ. of Arkansas*), 1913 A.M., 1914		*	*Ft. Smith, Arkansas*
Beach, Amy Adaline—German A.B., 1914		* †	*Champaign*
Beach, Walter Spurgeon—Botany B.S.A., M.S. (*Minn. Coll. of Ag.*), 1914, 1915		* †	*Hutchinson, Minnesota*
Beattie, Harry James—Analytical Inorganic Chemistry A.B., 1914 A.M. (*Univ. of Denver*), 1915		*	*Denver, Colorado*
Beck, Clyde Byron—English A.B. (*Earlham Coll.*), 1906 A.M., 1916		* †	*Richmond, Indiana*
Benedict, Murray Reed—Economics B.S. (*Univ. of Wisconsin*), 1916		*	*Urbana*
Beilin, David Solomon—Chemistry B.S., 1917	SS	*	*Chicago*
Belting, Paul Everett—Education A.B., 1912	SS		*Charleston*
Bennett, Arthur Norton—Sanitary Chemistry B.S., 1907 M.S., 1915	SS		*Lawrence, Michigan*
Bennett, William Lee—Chemistry A.B., 1902		†	*Urbana*
Benson, Adolph Martin—German A.B. (*Augustana Coll.*), 1916		†	*Alpha*

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[1] Candidate for professional degree in engineering.

Berdahl, Clarence Arthur—Political Science A.M. (*Univ. of S. Dak.*), 1917		* †	*Sioux Falls, South Dakota*
Beyer, Mrs. Katherine Schoepperle— A.B., 1915 A.M., 1916		*	*Oil City, Pennsylvania*
Bingen, William Joseph—Hydraulic and Sanitary Engineering B.S., C.E. (*Minnesota Univ.*), 1912, 1913		†	*Andover, South Dakota*
Bockius, Doris von Eisen—Chemistry B.S. (*Rockford Coll.*), 1917		†	*Chicago*
Boehmer, Florence Elsie—Education A.B. (*Drury Coll.*), 1912	SS		*Springfield, Missouri*
Bogart, Mrs. Stella M.—Romance A.B. (*Oberlin Coll.*), 1901		*	*Urbana*
Bole, Simeon James—Horticulture A.M., 1912	SS	* †	*Champaign*
Borden, Raymond Franklin—Mathematics Ph.B. (*Brown Univ.*), 1914 A.M., 1915	SS	* †	*Portsmouth, Rhode Island*
Boughton, Thomas Harris—Pathology S.B., S.M. (*Univ. of Chicago*), 1903, 1904 M.D. (*Rush Medical Coll.*), 1906	SS	*	*Chicago*
Boyle, Cecil Wayne—Chemistry A.B. (*De Pauw Univ.*), 1910 A.M., 1917	SS		*Greencastle, Indiana*
Bracewell, Ray Herman—Education B.S. (*Illinois Coll.*), 1915	SS		*Lerna*
Bracewell, Russell Starkey—Chemistry A.B. (*Univ. of Kansas*), 1916	SS	* †	*Urbana*
Bradley, Manson James—Chemistry A.M. (*McMasters Univ.*), 1915		* †	*Toronto, Canada*
Braham, Joseph Marvin—Chemistry B.S. (*Univ. of Idaho*), 1914 M.S., 1915		* †	*Spokane, Washington*
Brew, James D.—Bacteriology B.S. (*Cornell Univ.*), 1912		* †	*Urbana*
Brewbaker, Charles Earl—Education A.B. (*McKendree Coll.*), 1914	SS		*Altamont*
Brock, William Sanford—Horticulture A.B. (*Waynesburg Coll.*), 1910 B.S., 1915		*	*Urbana*
Brockson, Washington Irving—Agronomy B.S. (*Delaware State Coll.*), 1915 M.S. (*Iowa State Coll.*), 1916		*	*Middletown, Delaware*
Brooks, Viola—History A.B., 1917		* †	*Urbana*
Brown, Bruce J.—Mathematics A.B., A.M. (*Drury Coll.*), 1915, 1917		*	*Rich Hill, Missouri*
Brown, Hazel Elizabeth—English B.S. (*Coe Coll.*), 1915		* †	*Cedar Rapids, Iowa*
Brown, Hugh Alexander[1]—Electrical Engineering B.S., M.S., 1911, 1913			*Urbana*
Brown, John Bernis—Organic Analysis B.S., 1915 M.S., 1917		*	*Rock Falls*
Brush, Elizabeth Parnham—History A.B. (*Smith Coll.*), 1909 A.M., 1912		*	*Boulder, Colorado*
Bundy, Dorothy Etta—English A.B. (*Univ. of Wis.*), 1915		* †	*Centralia*
Burlison, William Leonidas—Botany B.S. (*Univ. of Okla.*), 1905 M.S., Ph.D., 1908, 1915		*	*Champaign*
Burner, Willis Judson—History A.B. (*Hedding Coll.*), 1892 B.D. (*Butler Coll.*), 1901 A.M. (*Univ. of Missouri*), 1916	SS		*Peoria*
Bussell, Nellie Eileen—Education A.B. (*Univ. of Wisconsin*), 1913		* †	*Grand Rapids, Michigan*
Butzow, Louis James[1]—Electrical Engineering B.S., 1906			*Chicago*
Callen, Alfred Copeland—Mining Engineering B.S., M.S. (*Lehigh Univ.*), 1909, 1911		*	*Urbana*
Campbell, Allan Berry[1]—Electrical Engineering B.S., 1909			*Ames, Iowa*
Campbell, Ethelred E. A.—Chemistry Work for A.B. to be completed 1918		†	*Jamaica, West Indies*
Carmichael, Wilbur Jerome—Animal Husbandry B.S., M.S., 1913, 1916		*	*Urbana*
Case, Harold Clayton M.—Animal Husbandry B.S., 1912	SS	* †	*Urbana*
Castle, Russell D. V.—Economics A.B., 1916		* †	*Urbana*
Chang, Hung Lieh—Political Science A.B (*Baldwin-Wallace Coll.*), 1916	SS	* †	*Hanan, China*

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[1] Candidate for professional degree in engineering.

Charlton, Ernest Edward—Industrial Chemistry A.B. (*Grinnell Coll.*), 1913 M.S., 1915		*	†	*Cherokee, Iowa*
Checkley, Joseph Harvey—Animal Husbandry B.S., 1913		*		*Urbana*
Chen, Jung Ting—Animal Husbandry Work for B.S. completed, 1918			†	*Canton, China*
Chen, Queh King—Political Science A.B., 1917	SS	*		*Hunan, China*
Chiles, Howard Marion—Chemistry B.S., 1917	SS	*	†	*Carlinville*
Christie, Jesse Roy—Zoology B.S., (*Kentucky State Univ.*), 1914		*	†	*Manchester,* ***New Hampshire***
Chung Pau Sien—Animal Husbandry B.S. (*Iowa State Coll.*) 1917		*	†	*Shanghai, China*
Clark Harvey Joseph—History Ph.B. (*Drake Univ.*), 1912		*		*Chicago*
Colby, Arthur Samuel—Botany B.S. (*New Hampshire Coll.*), 1911 M.S., 1915		*		*Tilton, New Hampshire*
Coleman, George Hopkins—Chemistry B.S. (*Greenville Coll.*), 1915		*	†	*Urbana*
Collings, Gilbeart Hooper—Agronomy B.S. (*Virginia Poly. Inst.*), 1915	SS	*	†	*Crewe, Virginia*
Collins, Gladys Marie—English A.B. (*Illinois Wesleyan*), 1917		*	†	*Hubbard Woods*
Collins, Ray Arthur[1]—Civil Engineering B.S., 1909				*Manila, Philippine Islands*
Colver, Charles William—Chemistry B.S., M.S. (*Univ. of Idaho*), 1909, 1911		*	†	*Moscow, Idaho*
Colvin, Carl—Education B.S., 1912			†	*Urbana*
Copley, Beatrice Virginia—English A.B., A.M., 1915, 1917		*	†	*Joliet*
Craigmile, Mary Delight—Mathematics A.B., 1918			†	*Knox, Indiana*
Crane, Rufus—Structural Engineering S.B. (*Mass. Inst. of Tech.*), 1911		*	†	*Urbana*
Crawford, Henry Gordon MacGregor—Entomology B.S. (*Toronto Univ.*), 1915 M.S., 1917		*	†	*Wilton Grove, Ontario*
Crooks, Harold Fordyce—Geology A.B., 1916		*		*Oak Park*
Culver, Harry B.—Pathology B.S. (*Univ. of Wisconsin*), 1910 M.D. (*Rush Medical Coll.*), 1913	SS	*		*Appleton, Wisconsin*
Cuthbert, Dorothy Lucile—Latin A.B., A.M., 1916, 1917		*	†	*Gilsum, New Hampshire*
Dalbey, Nora Elizabeth—Botany A.B., A.M. (*Univ. of Kansas*), 1913, 1914		*	†	*Sterling, Kansas*
Davis, Roy Lefevre—Education A.B., A.M. (*Illinois Wesleyan Univ.*), 1915, 1916 A.M., 1917	SS	*		*Potomac*
Day, Harry Warren—Horticulture B.S., 1917		*		*Shelbyville*
Deam, Thomas Marion—Education A.B. (*Indiana State Univ.*), 1908 A.M. (*Columbia Univ.*), 1915	SS			*Bluffton, Indiana*
Denson, Charles Hackett—Animal Husbandry Work for B.S. completed, 1918			†	*Beach, Mississippi*
De Turk, Ernest E.—Agronomy B.S. (*Purdue Univ.*), 1913	SS	*	†	*Urbana*
De Turk, Jeremiah Amos—Mechanical Engineering B.S. (*Pennsylvania State Coll.*), 1912		*		*Reading, Pennsylvania*
Dickey, Lloyd Blackwell—Zoology A.B. (*Fargo Coll.*), 1915		*	†	*Esmond, North Dakota*
Dolkart, Leo[1]—Electrical Engineering B.S., 1903				*Moline*
Dorsey, Dee—History A.B. (*Hedding Coll.*), 1917		*	†	*Mt. Sterling*
Dotterer, John Ezra—Mathematics A.B. (*Blue Ridge Coll.*), 1912 A.M., 1917	SS			*New Windsor, Maryland*
Dreesen, William Henry—Economics A.B. (*Greenville Coll.*), 1907 A.M., 1916		*	†	*Urbana*
Du, Chuin—Economics AB. (*Baldwin Wallace Coll.*), 1916 A.M. (*Univ. of Wisconsin*), 1917		*	†	*Honan, China*
Du Frain, Frank James—Education A.B., 1916	SS			*Momence*
Dunbar, Louise Burnham—History A.B. (*Mt. Holyoke Coll.*), 1916 A.M., 1917		*	†	*White River Junction, Vermont*

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[1] Candidate for professional degree in engineering.

Dungan, George Harlan—Botany B.S., 1917		*	†	*Richwood, Ohio*
Dunn, Max Shaw—Chemistry A.B. (*Simpson Coll.*), 1916		*	†	*Milo, Iowa*
Durst, Charles Elmer—Genetics B.S., M.S., 1909, 1912	SS	*	†	*Urbana*
Duval, Elair Dilworth[1]—Civil Engineering B.S., 1912				*Long Island, New York*
Eckstein, Henry Charles—Chemistry A.B., 1915	SS	*	†	*Peoria*
Edington, William Edmund—Mathematics A.B. (*Indiana State Normal*), 1909		*	†	*Terre Haute, Indiana*
Ekblaw, Walter Elmer—Economic Geology A.B., A.M., 1910, 1912		*	†	*Rantoul*
Ellis, Harry Delmar—Education A.B. (*Univ. of Michigan*), 1909		*		*Dundee, New York*
Emmerson, Edith Marie—German A.B. (*Illinois Coll.*), 1917		*	†	*Virden*
Engel, Solton—English Literature A.B. (*Columbia Coll.*), 1916		*	†	*New York City, New York*
Fager, Eugene Philip—Chemistry A.B., 1916	SS	*	†	*Murphysboro*
Falls, Frederick H.—Pathology B.S. (*Univ. of Chicago*), 1908 M.D. (*Rush Medical Coll.*), 1910 M.S., 1916	SS	*		*Chicago*
Fanning, Ralph Stanlee—Architecture B.Arch. (*Cornell Univ.*), 1912		*	†	*Riverhead, L. I., New York*
Fazel, Charles Stever—Physics A.B. (*Fairmount Coll.*), 1914 A.M., 1915	SS			*Wichita, Kansas*
Ferguson, Louis Smith[1]—Mechanical Engineering B.S., 1913				*Pittsburgh, Pennsylvania*
Fisch, Max Eleazer—Anatomy B.S. (*Coll. Med. Univ. of Illinois*), 1917	SS			*Chicago*
Fisher, Forrest Adison—Agronomy B.S., 1911			†	*Urbana*
Fites, Herald Bratt—Horticulture B.S., 1917		*	†	*South Bend, Indiana*
Fitz-Gerald, Leora Almita—Romance A.B., 1916		*	†	*Urbana*
Flowers, Roy Warner[1]—Architectural Engineering B.S., 1906				*Gary, Indiana*
Ford, Jay Thomas—Individual Chemistry A.B. (*De Pauw Univ.*), 1914 M.S., 1916	SS	*	†	*Pendleton, Indiana*
Frary, Hobert Dickinson—Mathematics M.E., M.S. (*Univ. of Minn.*), 1908, 1909	SS	*		*Minneapolis, Minnesota*
French, Herbert Ephraim—Chemistry A.B. (*Morningside Coll.*), 1915 A.M., 1917	SS	*	†	*Champaign*
Fritts, Edwin Coulthard—Physics B.S. (*Georgetown Coll.*), 1917	SS	*		*Lexington, Kentucky*
Fry, Albert Stevens[1] — B.S., 1913				*Memphis, Tennessee*
Funk, Ruth Scovell—Bacteriology B.S., 1917			†	*Urbana*
Gantz, Richard Alonzo—Botany A.B. (*Michigan Univ.*), 1912		*	†	*Urbana*
Garabedian, Carl Arshag—Mathematics B.S., M.S. (*Tufts Coll.*), 1915, 1916	SS			*Durham, New Hampshire*
de Garmo, Mary Cora—Chemistry A.B. (*Washington Univ.*), 1912 A.M. (*Columbia Univ.*), 1913		*		*St. Louis, Missouri*
Garvin, Mary Beatrice—Sociology A.B., 1917		*		*Champaign*
Gatward, Walter Arthur—Electrical Engineering B.S. (*Washington State Coll.*), 1913 M.S., 1916	SS	*		*Urbana*
Gaynor, Elizabeth Webb—History A.B. (*Univ. of Wisconsin*), 1907		*		*Grand Rapids, Wisconsin*
Gehrig, Arthur Gustave—Civil Engineering B.S., 1917		*	†	*Urbana*
Gerlach, Miriam—English A.B., 1911		*		*Doniphan, Missouri*
Geyer, Myrtle Cruzan—English A.B., 1914				*Mattoon*
Godeke, Harry Frederick—Mechanical Engineering B.S., 1905		*	†	*Urbana*
Godlove, Isaac Hahn—Organic Chemistry B.S., A.M. (*Washington Univ.*), 1914, 1915		*	†	*St. Louis, Missouri*
Gordon, John Henry—Chemistry A.B. (*Fisk Univ.*), 1916		*	†	*Nashville, Tenn.*

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[1] Candidate for professional degree in engineering.

Green, Grace—Latin A.B. (*Illinois Wesleyan*), 1917		*	†	*Bloomington*
Greenbaum, Charles Stanley—Chemistry A.B. (*Univ. of Wyoming*), 1917		*		*Laramie, Wyoming*
Greene, James Henry—Education B.S., M.S., 1908, 1915		*		*Urbana*
Greenfield, Edman—Sanitary Chemistry A.B. (*Univ. of Kansas*), 1914 A.M., 1916	SS	*	†	*Sabetha, Kansas*
Griffith, Coleman Roberts—Psychology A.B. (*Greenville Coll.*), 1915	SS	*	†	*Greenville*
Griffith, Wendell Horace—Chemistry B.S. (*Greenville Coll.*), 1917		*	†	*Greenville*
Gross, Alfred William—Education Ph.B. (*Northwestern Coll.*), 1909 A.M., 1917		*	†	*Urbana*
Grove, Pearl Forest—Botany A.B., 1913		*	†	*Urbana*
Gulick, Edward Everett—Education B.L., 1892	SS			*Champaign*
Gunderson, Alfred Joseph—Pomology B.S., 1911		*		*Urbana*
Gusler, Gilbert—Animal Husbandry B.S., 1912	SS	*	†	*Urbana*
Gustafson, Axel Ferdinand—Agronomy B.S., M.S., 1907, 1912		*	†	*Urbana*
Gutting, Leo Arthur[1]—Electrical Engineering B.S., 1911				*Gatun, Canal Zone*
Hackedorn, Howard—Animal Husbandry B.S. (*Univ. of Missouri*), 1910		*		*Columbia, Missouri*
Hague, Florence Sander—Zoology A.B., A.M. (*Univ. of Kansas*), 1911, 1914	SS	*	†	*Urbana*
Haley, Margaret Scudder—History A.B. (*Knox Coll.*), 1917		*	†	*Joy*
Hamilton, Thomas Sherman—Chemistry B.S., 1917		*		*Paris*
Hanawalt, Ella May—Education A.B. (*Univ. of Michigan*), 1915	SS			*Galva*
Handschin, Walter Frederick—Animal Husbandry B.S., 1913	SS			*Urbana*
Hanna, Helen Irene—German A.B. (*Central Coll.*), 1916	SS	*	†	*Epworth, Iowa*
Hansen, Roy—Agronomy B.S., 1914		*	†	*Rock Island*
Harbison, Chester Clyde—Sociology A.B. (*Univ. of Michigan*), 1914		*	†	*Urbana*
Hardikar, Narayan Subrao—Education M.S. (*Univ. of Michigan*), 1916		*		*Hubli, Bombay, India*
Harper, Claude Ligonier—Animal Husbandry B.S. (*Purdue Univ.*), 1914	SS	*	†	*Urbana*
Harrah, Ezra Clarence—Zoology A.B. (*Southwestern Coll.*), 1913		*	†	*Urbana*
Harwood, Hazel May—Education A.B. (*Vassar Coll.*), 1908		*	†	*Shelbyville*
Hatfield, William Durrell—Chemistry B.S. (*Illinois Coll.*), 1914 M.S., 1916	SS	*	†	*Jacksonville*
Haw, Arthur Blaine—Chemistry B.S. (*Harvard Univ.*), 1913	SS	*	†	*Ottumwa, Iowa*
Hecht, August George—Horticulture B.S., 1914	SS			*Overland, Missouri*
Heck, Archie Oliver—Education B.S. (*Hedding Coll.*), 1913 M.S., 1914	SS			*Bardolph*
Henderson, James Bruce—Animal Husbandry B.S., M.S., 1916	SS	*	†	*Urbana*
Hepburn, Nelson William—Dairy Manufactures B.S., M.S., 1907, 1910		*		*Urbana*
Hicks, John Frederick Gross—Industrial Chemistry B.S. (*Univ. of Pennsylvania*), 1906 M.S., 1916	SS	*	†	*Champaign*
Hill, Charles Francis—General Physics A.B., A.M., 1914, 1916		*	†	*Toledo*
Hill, Howard Rice—Zoology A.B. (*Carroll Coll.*), 1913 M.S., 1916		*		*Chicago*
Hobart, Clyde Monroe—Philosophy A.B., A.M., 1912, 1913	SS			*Chicago*
Hobler, Mrs. Harriet Wells—History A.B. (*Rockford Coll.*), 1882 A.M., 1917		*		*Batavia*
Hodnett, Mona Pearl—Latin A.B. (*Bates Coll.*), 1916		*	†	*Danforth, Maine*

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[1] Candidate for professional degree in engineering.

Hofacker, Olga Vera—English A.B., 1911	SS			*Peoria*
Hoffman, William Samuel—Sociology A.B. (*Greenville Coll.*), 1916 A.M., 1917	SS			*Greenville*
Hooper, Gertrude Mellen—Zoology A.B. (*Jackson Coll.*), 1915		*	†	*Tufts College, Massachusetts*
Hormel, Olive Dean—English A.B., 1916		*	†	*Wichita, Kansas*
Houck, Hazel Katherine—English A.B. (*Illinois Woman's Coll.*), 1917		*	†	*St. Joseph*
Howard, Grace Evangeline—Education Work completed for A.B. (*Wheaton Coll.*), 1918			†	*Wheaton*
Howell, Lloyd Brelsford—Organic Chemistry A.B. (*Wabash Coll.*), 1909	SS	*	†	*Urbana*
Hsun, Ching Lee—Physics A.B., 1917		*	†	*Nan-chang, China*
Hsun, Jin Jee—Chemistry B.S., 1917		*	†	*Nan-chang, China*
Hufferd, Ralph William—Organic Chemistry A.B. (*Washington Univ.*), 1915 A.M., 1917		*	†	*St. Louis, Missouri*
Hultman, Ivar Ninus—Organic Chemistry B.S., 1917		*		*Chicago*
Hunsaker, Andrew Franklin—Political Science A.B., A.M., 1909		*	†	*Rantoul*
Hursh, Ralph Kent—Ceramic Engineering B.S., 1908		*	†	*Urbana*
Ingler, Francis Marion—Education A.M. (*Univ. of Indiana*), 1906	SS			*Petersburg, Indiana*
Jacob, Eda Auguste—Education A.B., 1914	SS			*Murphysboro*
Jacobs, Jessie Marie—Mathematics A.B. (*McPherson Coll.*), 1914 A.M. (*Univ. of Kansas*), 1916		*	†	*McPherson, Kansas*
James, Walter Pavy—Horticulture B.S., 1917		*	†	*Bloomington, Indiana*
Jaynes, Ethel— A.B. (*Univ. of Chicago*), 1904	SS			*Chicago*
Jennings, Walter Wilson—History A.B., A.M., 1915, 1916		*	†	*Champaign*
Jewell, Minna Ernestine—Zoology A.B. (*Colorado Coll.*), 1914 A.M., 1915	SS	*	†	*Colorado Springs, Colorado*
Jones, Easley Stephen—English A.B. (*Univ. of Colorado*), 1907 A.M. (*Harvard Univ.*), 1913		*		*Boulder, Colorado*
Jones, Robert Taylor[1]—Architecture B.S., 1912				*Vincennes, Indiana*
Kamp, Henry Wilbur—Latin A.B., 1917		*	†	*Watseka*
Karr, Walter Gerald—Physiological Chemistry B.S. (*Alfred Univ.*), 1913 M.S., 1916	SS			*Almond, New York*
Karrer, Sebastian—Physics A.B., A.M. (*Univ. of Washington*), 1911, 1913	SS	*	†	*Seattle, Washington*
Kawamura, Sadao Barbados—Animal Husbandry *Imperial University, Tokyo, Japan*			†	*Tokyo, Japan*
Kean, Hugh Pratt—Mathematics A.B. (*Albion Coll.*), 1906 A.M., 1909	SS			*Buchanan, Michigan*
Keen, Dora—Education A.B. (*Georgetown Coll.*), 1916 A.M., 1917	SS			*Georgetown, Kentucky*
Keiser, Albert—English Philology A.B. (*Wartburg Coll.*), 1911 A.M. (*Univ. of Montana*), 1915	SS	*	†	*Sterling, Nebraska*
Kelso, Ruth—English A.B., A.M., 1908, 1909	SS			*Los Angeles, California*
Kempton, Forrest Ellwood—Plant Pathology B.S. (*Earlham Coll.*), 1906 M.S. (*Univ. of Wisconsin*), 1913	SS		†	*Centerville, Indiana*
Kennedy, Josephine Wheaton[1]—Physiology A.B. (*Wheaton Coll.*), 1912	SS			*Wheaton*
Kennedy, Luther Eugene—Geology A.B., A.M., 1915		*	†	*Springfield*
Kienholz, Aaron Raymond—Botany B.S. (*Northwestern Coll.*), 1917		*	†	*Big Stone City, South Dakota*
Kindred, James Ernest—Zoology A.B. (*Tufts Coll.*), 1914 A.M., 1915		*	†	*Dorchester, Massachusetts*
King, Alice Gertrude—Latin A.B. (*Bates Coll.*), 1916		*	†	*Tilton, New Hampshire*

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[1] Candidate for professional degree in engineering.

King, Ping Sze—Mechanical Engineering A.B. (*Chihlo Technical Coll.*)		*	*Chekiang, China*
Kingsley, Mary Winship—History A.B., A.M. (*Tufts Coll.*), 1903, 1904		* †	*Urbana*
Kipnis, Herman Benjamin[1]—Pathology and Bacteriology B.S. (*U. I. Coll. of Med.*), 1917	SS		*Chicago*
Kircher, Paul[2]—Civil Engineering A.B., B.S., 1911, 1912			*Chicago*
Kirkpatrick, Harold H—Education A.B., 1897	SS		*Urbana*
Kirkpatrick, Sidney Dale—Chemistry B.S., 1916		*	*Urbana*
Klaragard, Sever—Economics A.B.(*St. Olaf Coll.*), 1917		* †	*Buxton, North Dakota*
Knauss, Archibald Christian—Theoretical and Applied Mechanics B.S. (*Univ. of Minnesota*), 1917		*	*Morristown, Minnesota*
Knight, Abner Richard—Electrical Engineering M.E. (*Ohio State Univ.*), 1909 M.S., 1917		* †	*Urbana*
Koons, Guy Jink—Education A.B., 1912	SS		*Oakland*
Krafka, Joseph, Jr.—Zoology A.B., A.M. (*Lake Forest Coll.*), 1915		* †	*Ottumwa, Iowa*
Krieger, Augusta May—Education A.B., 1910 A.M., 1917		*	*Peoria*
Lancaster, Lane W—History A.B. (*Ohio Wesleyan*), 1915		* †	*Bellaire, Ohio*
Lancaster, Mrs. Mary Brown—English A.B. (*Ohio Wesleyan*), 1915		*	*Urbana*
Landis, Paul Nissely—English A.B., 1913 A.M. (*Franklin & Marshall Coll.*) 1915		* †	*Womelsdorf, Pennsylvania*
Langwill, Bertha—Zoology B.S. (*Rockford Coll.*), 1916		* †	*Rockford*
Lapp, Claude Jerome—Physics A.B.(*Albion Coll.*), 1917		*	*Richmond, Michigan*
Larsen, Arthur William—Mathematics A.B., A.M. (*Univ. of Wisconsin*), 1913, 1915		*	*Lawrence, Kansas*
Lathrop, William Grant—Geology A.B., 1917	SS		*Sumner*
Lauter, Carl John—Chemistry B.S., 1911		*	*Quincy*
Layton, Warren Kenneth—Education A.B. (*Northwestern Univ.*), 1911	SS	* †	*Potomac*
Lebeson, Herman—Chemistry B.S., M.S. (*Ohio State Univ.*), 1915		* †	*Columbus, Ohio*
Leighty, Wilbur Roy—Chemistry B.S. (*Illinois Wesleyan Univ.*) 1910		* †	*Urbana*
Levinson, Samuel Azor[1]—Anatomy B.S., 1917	SS		*Chicago*
Libman, Earl Emanuel—Chemistry B.S., 1916		* †	*Urbana*
Littleton, Ananias Charles—Business A.B., 1912		* †	*Urbana*
Liu, Yi—Civil Engineering A.T.E.C. (*Tangshan Eng. Coll.*), 1916		* †	*Tientsin, China*
Long, Clarence Columbus—Sociology A.B. (*Univ. of Missouri*), 1907 A.M. (*Univ. of Chicago*), 1912	SS	* †	*Elsberry, Missouri*
Long, Florence—Mathematics B.S. (*Earlham Coll.*), 1913		* †	*Pierceton, Indiana*
Longley, Lewis E.—Horticulture A.B. (*Coe Coll.*), 1904		†	*Washington, D.C.*
Lopez, Manuel Leon—Spanish A.B. (*Ohio Wesleyan Univ.*), 1916		* †	*Champaign*
Lord, Arthur Hardy—Education A.B. (*Dartmouth Coll.*), 1910	SS		*Hanover, New Hampshire*
Lord, Mrs. Ruth Burns—English A.B., 1911 A.M., 1913		* †	*Macomb*
Luney, Francis Solon[2]—Mechanical Engineering B.S., 1907			*DeKalb*
Lyon, William Riga—Electrical Engineering B.S. (*Worcester Poly. Inst.*), 1917		* †	*Worcester, Massachusetts*
McCabe, Claude Lee—Education A.B., 1914	SS		*Willow Hill*
McClure, William Lionel—Physiological Chemistry A.B. (*Drury Coll.*), 1916		*	*Lawton, Oklahoma*
McComis, Samuel Jay—Education B.L.(*Berea Coll.*), 1905 LL.B. (*Jefferson Univ.*), 1910 A.M., 1917	SS		*Champaign*

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[1] In Graduate Courses in Medical Sciences, offered in Chicago Summer Session, 1917.
[2] Candidate for professional degree in engineering.

McCrumb, Fred Rodgers—Chemistry B.S. (*Westminster Coll.*), 1917		*	*New Wilmington, Pennsylvania*
McElwain, Jennie—History B.S. (*Hedding Coll.*), 1905		* †	*Knoxville*
McHenry, Martin Josiah—Chemistry A.B (*Hendrix Coll.*) 1909 M.S. (*Univ. of Chicago*), 1913		* †	*Conway, Arkansas*
McKenzie, Mrs. Aimee Leffingwell—Romance Languages A.B. (*Bryn Mawr*), 1897		* †	*Urbana*
McKinney, Henry Theodore—Education A.B., A.M., 1913, 1915		* †	*Hudgens*
Margaret, Melitta Anna—Education A.B. (*Univ. of Chicago*), 1911	SS		*Belleville*
Mah, Wing Ngui—Political Science A.B., 1917		* †	*Canton, China*
Mann, Alban Whitford[1]—Electrical Engineering B.S., 1911			*Mattoon*
Marston, Leslie Ray—Education A.B. (*Greenville Coll.*), 1916 A.M., 1917		*	*Lakeview, Michigan*
Marten, Jane Frances—French A.B. (*Oxford Coll. for Women*), 1916		* †	*Tolona*
Marvel, Carl Shipp—Chemistry A.B. (*Illinois Wesleyan*), 1915 A.M., 1916		* †	*Waynesville*
Masten, Adele—English A.B. (*Univ. of Wisconsin*), 1915		* †	*Pontiac, Michigan*
Matsumoto, Torata—Theoretical and Applied Mechanics B.C.E.(*Kyoto Imperial Univ.*), 1906		* †	*Tokyo, Japan*
Maxey, James Roy—Education A.B. (*McKendree Coll.*), 1916	SS		*Walnut Hill*
Maynard, Milton Monroe—Education A.B. (*Univ. of Oklahoma*), 1908	SS		*Mt. Vernon, Missouri*
Meloy, Martha Lucile—English A.B. (*Monmouth Coll.*), 1917		* †	*Hoopeston*
Menual, Paul Lynn—Chemistry A.B., A.M. (*Univ. of New Mexico*), 1915, 1917	SS		*Albuquerque, New Mexico*
Merling, Ruth Evelyn—Physical Chemistry B.S., M.S. (*Univ. of Washington*), 1916, 1917		* †	*Seattle, Washington*
Mickle, Friend Lee—Sanitary Chemistry A.B. (*Allegheny Coll.*), 1911 M.S., 1917	SS		*Garland, Pennsylvania*
Miles, Lee Ellis—Botany A.B. (*Washington Coll.*), 1914		* †	*Marion, Indiana*
Millar, Paul Harwood—Economics B.S. (*Univ. of Arkansas*), 1917		* †	*Little Rock, Arkansas*
Miller, Earl Joyce—Economics A.B. (*Simpson Coll.*), 1916		*	*Indianola, Iowa*
Mohr, Alba Agnes—Spanish A.B., 1917		*	*Champaign*
Moor, Hubert Watson—Chemistry B.S., 1917		* †	*Champaign*
Moore, Josiah John—Pathology B.S. (*Univ. of Montana*), 1907 M.D. (*Rush Medical Coll.*), 1912	SS	* †	*Chicago*
Murphy, Maurice Elgin—Economics A.B. (*Indiana Univ.*), 1913 A.M., 1916	SS		*Eldorado*
Murray, Norris Fay—Food Chemistry B.S., 1912	SS		*Mazon*
Myers, Arthur Leslie[1]—Mechanical Engineering B.S., 1913			*Moline*
Myers, Frederic Irwin—English A.B., 1914 A.M. (*Indiana Univ.*), 1915		*	*Geneva, Indiana*
Myers, Lena Josephine—English A.B., 1913		* †	*Quincy*
Myers, Myron Arthur—Philosophy B.S. (*Dartmouth Coll.*), 1913		* †	*Hinsdale*
Neal, Earl Stephen—Education A.B. (*Howard Payne Coll.*), 1915 A.M. (*George Washington Univ.*), 1916	SS		*Rochelle, Texas*
Neill, Alma Jessie—Physiology A.B., A.M., 1913, 1915		* †	*Chillicothe*
Nelson, Benjamin[1]—Mechanical Engineering B.S., 1911			*Chicago*
Nelson, Milton Nels—Economics A.B., A.M., 1915, 1917	SS		*Chicago*
Nelson, Roy Andrew—Physics B.S. (*Knox Coll.*), 1916	SS	*	*Joy*
Newcomb, Rexford[1]—Architecture B.S., 1911			*Burlington, Kansas*

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[1] Candidate for professional degree in engineering.

Newlove, George Hillis—Economics Ph.B. (*Hamline Univ.*), 1914 A.M. (*Univ. of Minnesota*), 1915	SS	* †	*Bathgate, North Dakota*
Nolan, Aretas Wilbur—Education A.B. (*Indiana Univ.*), 1905 M.S. (*Univ. of West Virginia*), 1911		* †	*Urbana*
Nuttall, John Tilden—Chemistry B.S. (*Northwestern Univ.*), 1905 M.S., 1909		* †	*Champaign*
O'Brien, John Anthony—Education A.B., A.M. (*St. Viator's Coll.*), 1913, 1915		* †	*Peoria*
O'Gorman, James Michael—Education B.S., A.M. (*Columbia Univ.*), 1910, 1911		*	*Oswego, New York*
O'Kelleher, Andrew—Gaelic B.D., B.C.L.		*	*Cork, Ireland*
Okey, Ruth Eliza—Chemistry B.S. (*Monmouth Coll.*), 1914	SS	* †	*Monmouth*
Osborn, Leland George—Education A.B., 1914		* †	*Alton*
Osborne, Pauline Theodora—English A.B., 1916	SS		*Champaign*
Otani, Kura—Education A.B., 1917	SS		*Tokyo, Japan*
Owens, Albert Waffie—Chemistry B.S. (*Bucknell Univ.*), 1909		* †	*Lewisburg, Pennsylvania*
Palm, Franklin Charles—History A.B. (*Oberlin Coll.*), 1914		†	*Wilimar, Minnesota*
Palmer, Charles Shattuck—Chemistry B.S., 1917	SS		*Urbana*
Pauli, Adolph Frederick—Latin A.B., A.M., 1916, 1917		*	*Peoria*
Pearson, Frank Ashmore—Economics B.S.A. (*Cornell Univ.*), 1912	SS		*Urbana*
Pendergast, Mary Honora—English A.B., 1917		* †	*Urbana*
Perry, Margaret Campbell—Chemistry A.B., A.M., 1915, 1917	SS		*Urbana*
Peterson, Reuben Walter—Dairy Husbandry B.S., 1917		*	*Chicago*
Phelps, James Manley—English A.B. (*Northwestern Univ.*), 1912 A.M., 1916		*	*DeKalb*
Phillips, Alfred Owen—Chemistry B.S. (*Vanderbilt Univ.*), 1917		*	*Nashville, Tennessee*
Pickett, Roy Ernest[1]—Architectural Engineering B.S., 1911			*Sandusky, Michigan*
Pickler, William Eugene—Botany A.B. (*Wabash Coll.*), 1914	SS	* †	*Louisville, Kentucky*
Pieper, John—Agronomy B.S., M.S., 1917		* †	*Urbana*
Pike, Carl Eli—Physics B.S. (*Cornell Coll.*), 1916		* †	*Central City, Iowa*
Pooley, Marcus James—Chemistry B.S. (*Wesleyan Univ.*), 1916		*	*Carthage, South Dakota*
Powell, Alfred Richard—Chemistry B.Sc. (*Univ. of Kansas*), 1914 A.M. (*Univ. of Nebraska*), 1915	SS	* †	*Ottawa, Kansas*
Powell, Sargent Gastman—Chemistry B.S., M.S. (*Univ. of Washington*), 1916		* †	*Seattle, Washington*
Powers, Edwin Booth—Zoology A.B. (*Trinity Univ.*), 1906 M.S. (*Univ. of Chicago*), 1913	SS	* †	*Waxahachie, Texas*
Powers, J Orin—Sociology A.B., 1917		* †	*Urbana*
Prickett, Alva LeRoy—Economics A.B., 1913		* †	*Litchfield*
Putcamp, Elsie Myrtle—English A.B. (*Carthage Coll.*), 1917		*	*Princeton*
Putnam, William James—Theoretical and Applied Mechanics B.S., 1910		†	*Urbana*
Quiring, Daniel Paul—Zoology A.B. (*Oberlin Coll.*), 1917		* †	*Newton, Kansas*
Raines, Lester Courtney—Psychology Work for A.B. completed, 1918		†	*Urbana*
Ramsay, Crawford John—Education A.B., 1917	SS		*Urbana*
Randall, Grace Louise—Sociology A.B., 1917		* †	*Rogers Park*
Rayner, William Horace—Education B.S., 1909		* †	*Urbana*
Read, Orlando Bertrand—Chemistry Ph.B., Ped.B. (*Hillsdale Coll.*), 1892, 1902 A.M. (*Univ. of Wisconsin*), 1910		* †	*Urbana*

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[1] Candidate for professional degree in engineering.

Reed, Ralph Daniel—Geology	B.S. (*Hiram Coll.*), 1913		*	†	*Howard, Ohio*
Reeder, Claude Hazlett[1]—Electrical Engineering	B.S, 1910				*Chicago*
Reeder, John Corwin—Education	A.B., 1917	SS			*Arcola*
Rees, Edwin Arthur—Inorganic Chemistry	A.B., A.M. (*University of Denver*), 1913, 1914	SS		†	*Garfield, Utah*
Renich, Mary Emma—Botany	A.B., A.M., 1911, 1912	SS		†	*Clinton*
Rhoton, Alvis Lemuel—Education	A.B. (*Georgetown Coll.*), 1899 A.M. (*Washington Univ.*), 1901	SS			*Georgetown, Kentucky*
Rice, John Benjamin—Animal Husbandry	B.Sc. (*Univ. of Nebraska*), 1915	SS	*	†	*Norfolk, Nebraska*
Richardson, Clarence Hudson—Mathematics	B.S. (*Univ. of Kentucky*), 1913	SS	*	†	*Buffalo, Kentucky*
Rindfusz, Ralph Emerson—Chemistry	A.B., A.M. (*Oberlin Coll.*), 1911, 1916	SS	*	†	*Urbana*
Ripley, Lewis Bradford—Insect Morphology	B.S. (*Trinity Coll.*), 1915 M.S., 1916		*		*Glastonbury, Connecticut*
Rives, Nannie Baxter—Mathematics	A.B., 1915	SS			*Rockbridge*
Roberts, Kathleen Alice—English	A.B., 1906	SS			*Champaign*
Roberts, Nellie Read—English	A.B., 1913 B.L.S., 1915		*		*Champaign*
Rohrer, Frank Philip—German	Work for A.B. completed, 1917		*	†	*Gilman*
Rowland, Floyd Elba—Chemistry	A.B., 1914	SS	*	†	*Corvallis, Oregon*
Rudolfs, Willem—Botany	(*Gov't Univ., Wageningen, Holland*)		*	†	*Wageningen, Holland*
Rumsey, Mary Hilliard—History	A.B., 1916	SS			*Muscatine, Iowa*
Ruth, Warren Albert—Botany	A.B., A.M. (*Wabash Coll.*), 1906, 1909	SS	*	†	*Urbana*
Sachs, Ward Hanson—Chemistry	B.S. (*Illinois Wesleyan Univ.*), 1910 A.M. (*Univ. of Missouri*), 1917		*	†	*Urbana*
Sargent, Rachel Louisa—Latin	A.B. (*Bates Coll.*), 1914 A.M., 1917		*	†	*Exeter, New Hampshire*
Schaarman, Emil Ferdinand—Education	A.B., A.M., 1914, 1915		*		*Champaign*
Schachter, Joseph Andrew[2]—Pathology	B.S., 1917	SS			*Chicago*
Schalch, Michael Andrew—Agronomy	B.S., 1916	SS			*Butler, Kentucky*
Schelly, Ralph Percy—Chemistry	B.S. (*Lafayette Coll.*), 1909		*		*Philadelphia, Pennsylvania*
Schleader, Theodore Henry[1]—Architectural Engineering	B.S., 1885				*Chicago*
Schoen, Edgar Jules—Romance Languages	A.B. (*Harvard Univ.*) 1915		*	†	*Waukesha, Wisconsin*
Schoonover, Warren Rippey—Agronomy	B.S. (*Occidental Coll.*), 1912 M.S., 1916		*		*Urbana*
Schrader, Frederick Ambrose—Education	A.B. (*Illinois Coll.*), 1908	SS			*Murphysboro*
Schradieck, Henry Edward—Zoology	B.S. (*Cornell Univ.*), 1916		*	†	*Brooklyn, New York*
Schulz, Ernest Rudolf—Agronomy	B.S., M.S., 1916, 1917		*	†	*Urbana*
Scott, James Robinson, Jr.[1]—Civil Engineering	B.S., 1907				*Denver, Colorado*
Scott, Winfield—Agronomy	B.S., 1916		*	†	*Brownfield*
Seiler, Eleanor Frances—Physics	A.B., A.M. (*Univ. of Denver*), 1913, 1914 A.M., 1916		*	†	*Denver, Colorado*
Seris, Mrs. Herlinda Smithers—Romance Languages	A.B. (*Barnard Coll.*), 1909		*	†	*New York City, New York*
Severson, Burns Oscar—Animal Husbandry	B.S. (*Univ. of Wisconsin*), 1910 M.S. (*Penn. State Coll.*), 1915		*	†	*State College, Pennsylvania*
Sexsmith, Edna[2]—Pathology	A.B. (*Univ. of Iowa*), 1913	SS			*Greenfield*
Shaffer, Owen Vernon—Chemistry	B.S. (*Westminster Coll.*), 1915		*		*New Wilmington, Pennsylvania*

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[1] Candidate for professional degree in engineering.

[2] In Graduate Courses in Medical Science, offered in Chicago, Summer Session, 1917.

Shaw, Hazel Yearsley—Political Science A.B., A.M., 1907, 1908		*	†	*Urbana*
Shawl, Ray Iris—Animal Husbandry B.S., 1916		*		*Ohio*
Shonle, Horace Abbott—Chemistry B.S., M.S., 1916, 1917		*		*Tuscola*
Shulters, John Raymond—French A.B., A.M., 1910, 1911		*	†	*Bristol, New York*
Sladek, George Edward—Chemistry B.S., 1917	SS			*Chicago*
Sluss, Alfred Higgins[1]—Mechanical Engineering B.S., 1901				*Lawrence, Kansas*
Smith, Carl Ambrose—Education A.B. (*Wabash Coll.*), 1913	SS			*New Ross, Indiana*
Smith, Cecil Weldon[1]—Mining Engineering B.S., 1913				*Nokomis*
Smith, Clara Mabel—Education A.B., 1917	SS	*	†	*St. Clair, Michigan*
Smith, Merlin Grant—Mathematics B.S. (*Greenville Coll.*), 1915 A.M., 1916	SS	*	†	*Ashtabula, Ohio*
Smith, Otto Mitchell—Chemistry B.S. (*Drury Coll.*), 1907	SS	*	†	*Springfield, Missouri*
Snider, Earl Quinter—Education A.B., 1906	SS			*Bisbee, Arizona*
Snodgrass, John McBeath[1]—Mechanical Engineering B.S., 1902				*Champaign*
Snuff, Hazel—History B.S. (*Northwestern Coll.*), 1917		*	†	*Berrien Springs, Michigan*
Soto, Rafael Arcangel—Romance Languages B.S., A.B., 1912, 1915		*	†	*Porto Rico*
Spencer, Cynthia Eugenia—Botany A.B., 1917	SS			*Champaign*
Spencer, Edwin Rollin—Botany A.B., A.M., 1911, 1914		*	†	*Rushville*
Stanford, Howard Russel—Horticulture B.S., 1908		*	†	*Urbana*
Stearn, Allen Edwin—Chemistry A.B., 1915 A.M. (*Stanford Univ.*), 1916		*	†	*St. Louis, Missouri*
Steimley, Leonard Leo—Mathematics A.B., A.M. (*Indiana Univ.*), 1912, 1913			†	*Attica, Indiana*
Stephenson, Bird Richard—Physics A.B. (*Albion Coll.*), 1916 A.M., 1917		*	†	*Champaign*
Stevenson, John Alford—Education A.B. (*Ewing Coll.*), 1908 A.M. (*Univ. of Wisconsin*), 1911	SS	*	†	*Urbana*
Stickney, Fenner Satterthwaite—Entomology B.S. (*Univ. of California*), 1916	SS	*	†	*Urbana*
Stinson, Marguerite Marie—Education A.B. (*Hedding Coll.*), 1916		*	†	*Champaign*
Stopp, Gerald Darfield—English A.B., 1915		*		*Plainfield*
Stromquist, Walter Gottfrid[1]—Civil Engineering A.B. (*Bethany Coll.*), 1905 B.S., 1910				*Chicago*
Sutcliffe, Emerson Grant—English A.B. (*Harvard Univ.*), 1911 A.M., 1914		*	†	*Urbana*
Swigert, Blanche Belle—English A.B., 1918			†	*Rapatee*
Takashima, Saichiro—Economics A.B., A.M. (*Tokyo Coll.*), 1909, 1911		*	†	*Shimodate-machi, Japan*
Tambo, Mario—Genetics *Imperial Univ., Tokyo, Japan*			†	*Hiroshimaken, Japan*
Tate, Howard Raymond—Chemistry B.S. (*Parsons Coll.*), 1916	SS			*Bell Brook, Ohio*
Taylor, Scott Champlin—Chemistry B.S., M.S., 1913, 1915	SS	*		*Bement*
Taylor, Ward Hastings—Mathematics A.B., A.M., 1910, 1913			†	*Avon*
Theobald, Ora Mary—English A.B. (*Illinois Woman's Coll.*), 1917		*	†	*Jacksonville*
Thorne, Lawrence Emerson—Genetics B.S., 1915	SS			*Urbana*
Towns, Orla Alamon—History A.B., A.M., 1912, 1917	SS			*Carterville*
Townsley, Fred Delzell—Education A.B. (*Wabash Coll.*), 1911	SS			*Idaville, Indiana*
Troutman, William Chilton—English A.B., 1917		*	†	*Carl Junction, Missouri*
Tseng, Yang Feng—Civil Engineering B.S. (*Pei Yang Univ.*), 1911		*	†	*Shanghai, China*

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[1] Candidate for professional degree in engineering.

Tsu, Tseh Ling—History A.B. (*Univ. of Nanking*), 1914		*	†	*Kinglang, China*
Uhlendorf, Bernhard Alexander—German A.B., A.M. (*Washington Univ.*), 1916		*	†	*St. Louis, Missouri*
Ulich, Lynne Herman—Chemistry B.S. (*Grinnell Coll.*), 1914		*	†	*Villisca, Iowa*
Unnewehr, Charles August—Education A.B., A.M. (*Indiana Univ.*), 1902, 1911	SS			*Batesville, Indiana*
Updegraff, Helen—Chemistry A.B. (*Cornell Univ.*), 1915 A.M., 1917		*		*Vallejo, California*
Upham, Thomas Carlton—English B.S. (*Mass. Agric. Coll.*), 1916		*	†	*Fitchburg, Massachusetts*
Van Alstine, Ernest—Chemistry B.S., M.S., 1907, 1917		*	†	*Urbana*
Van Winkle, William Alexander—Chemistry B.S. (*Univ. of Michigan*), 1911 M.S., 1917		*	†	*Bay City, Michigan*
Ver Nooy, Lester Carlton—Zoology A.B. (*Amherst Coll.*), 1916		*	†	*Cortland, New York*
Voigt, Edwin Frederick—Bacteriology B.S. (*Purdue Univ.*), 1915	SS			*Camden, New Jersey*
Vollweiler, Ernest Henry—Chemistry A.B. (*Miami Univ.*), 1914 A.M., 1916		*	†	*Shandon, Ohio*
Wahlen, Frank Gustave—Mechanical Engineering B.S. (*Tufts Coll.*), 1917		*	†	*Montpelier, Vermont*
Walker, Marjorie Louise—English A.B. (*Univ. of Michigan*), 1914			†	*Grand Rapids, Michigan*
Walser, Stephen Albert—Bacteriology B.S., 1917		*		*Brooklyn, New York*
Walton, William Clarence—Education A.B., A.M., Ph.D. (*McKendree Coll.*), 1892, 1894, 1897	SS			*Lebanon*
Warner, Earle Horace—Physics A.B. (*Univ. of Denver*), 1912 A.M., 1914		*	†	*Urbana*
Waterbury, Leslie Abram[1]—Architectural Engineering B.S., 1912				*Tucson, Arizona*
Watkins, James Rufus—Theoretical and Applied Mechanics B.C.E. (*Univ. of Kentucky*), 1915		*		*Central City, Kentucky*
Watson, Jane Coulson—Spanish A.B., A.M., 1915, 1917		*	†	*Champaign*
Webster, Frederick Farrar—Animal Husbandry B.S., 1917		*		*Oberlin, Ohio*
Weese, Asa Orrin—Zoology A.B. (*Univ. of Minnesota*), 1909	SS	*		*Albuquerque, New Mexico*
Weese, Josephine Mousley—History A.B. (*Univ. of Minnesota*), 1909		*		*Albuquerque, New Mexico*
Weirick, Robert Bruce—English A.B. (*Colorado Coll.*), 1911 A.M. (*Harvard Univ.*), 1913		*		*Urbana*
Weiss, Allen Samuel—English A.B.(*McKendree Coll.*), 1912		*	†	*Savoy*
Wells, Lansing Sadler—Chemistry A.B. (*Univ. of Montana*), 1915 A.M., 1917		*	†	*Helena, Montana*
Westhafer, Terrence Onas—Chemistry A.B. (*Oklahoma Univ.*), 1914 M.S., 1916	SS	*	†	*Urbana*
Whisenand, James Wilbur—Animal Husbandry B.Sc. (*Univ. of Nebraska*), 1914 M.S., 1916		*	†	*Urbana*
Whitford, Robert Calvin—English A.B (*Coll. of the City of New York*), 1912 A.M. (*Columbia Univ.*), 1913		*	†	*Urbana*
Whitten, Jennie Alma—German A.B., 1917	SS	*	†	*DeKalb*
Wiersema, Harry Anthony[1]—Civil Engineering B.S., 1913				*Portsmouth, Virginia*
Wilcox, Roy Harold—Animal Husbandry B.S. (*Minnesota Agric. Coll.*), 1915	SS			*Urbana*
Williams, Lewis Ward—Education Ph.B. (*Hiram Coll.*), 1909		*	†	*Marshall*
Williams, Roy Arlyn—Education A.B. (*De Pauw Univ.*), 1912	SS			*Stewardson*
Wilson, William Courtney—Chemistry B.S. (*Westminster Coll.*), 1917		*	†	*New Wilmington, Pennsylvania*
Winkelmann, Herbert August—Chemistry B.S. (*Northwestern Univ.*), 1914	SS	*		*Appleton, Minnesota*
Wirth, Fremont Philip—History A.B., 1917		*	†	*Waterloo*
Wold, Ingal Enser—Education B.S., 1916	SS			*Rockford*

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[1] Candidate for professional degree in engineering.

Woods, Roscoe—Mathematics		
A.B. (*Univ. of Maine*), 1916	* †	*Vanarsdell, Kentucky*
Wright, Allen Thurman—English		
A.B., 1913	SS	*Franklin*
Wright, Mildred Gail—Household Science		
B.S. (*Milwaukee-Downer Coll.*), 1917	* †	*Menominee, Wisconsin*
Wyatt, Frank Archibald—Agronomy		
B.S. (*Utah Agric. Coll.*), 1910		
M.S., Ph.D., 1913, 1915	*	*Champaign*
Yntema, Leonard Francis—Chemistry		
A.B. (*Hope Coll.*), 1915		
A.M., 1917	*	*Holland, Michigan*
Yuasa, Hachiro—Entomology		
B.S. (*Kansas State Agr. Coll.*), 1915		
M.S., 1917	* †	*Tokyo, Japan*
Yuncker, Mrs. Ethel Claflin—Household Science		
B.S. (*Michigan Agric. Coll.*), 1915	* †	*Urbana*
Yuncker, Truman George—Botany		
B.S. (*Michigan Agr. Coll.*), 1914		
A.B. (*Univ. of Nebraska*), 1915	* †	*Urbana*
Zerbee, Leigh Francis Joseph[1]—Civil Engineering		
B.S., 1911		***Bellefontaine, Ohio***

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[1] Candidate for professional degree in engineering.

UNDERGRADUATE AND PROFESSIONAL COLLEGES AND SCHOOLS IN URBANA, 1917-18

(Including the Colleges of Liberal Arts and Sciences, Commerce and Business Administration, Engineering, Agriculture, and Law, the Library School, and the School of Music)

ABBREVIATIONS

Curriculums

Arch	Architecture	LAS	General Liberal Arts and Sciences
AE	Architectural Engineering	Lib	Library Science
Agr	Agriculture	MdP	Medical Preparatory
CE	Civil Engineering	ME	Mechanical Engineering
CerE	Ceramic Engineering	MinE	Mining Engineering
Chem	Chemistry	MSE	Municipal and Sanitary Engineering
ChE	Chemical Engineering	Mus	Music
Com	Commerce and Business Administration	RCE	Railway Civil Engineering
EE	Electrical Engineering	REE	Railway Electrical Engineering
HSAgr	Household Science, Agriculture	RME	Railway Mechanical Engineering
HSLAS	Household Science, Liberal Arts and Sciences	Sp	Special
Law	Law	SS	Summer Session (1917)

Name	Curriculum	Credit Hours[1]	Residence
Abbitt, Macon Armistead	Arch		* †[2]Hopkinsville, Kentucky
Abbott, Howard Green	Agr	102	* † Morrison
Abbott, Lyle Smith	Agr		* † Elgin
Abraham, Lucile Hannah	Com	32	* † Moline
Abrahams, Samuel	MdP	33	* † Oblong
Abrahamson, Howard N	CE		* † Chicago
Acer, Charlotte Weld	HSLAS	26	* † Medina, New York
Ackerman, Charles Jr.	MdP		† Chicago
Ackert, Alice Nowell	SS	130½	Dixon
Acuff, Mrs. Lizzie Edith	SS	5	Urbana
Adams, Ethel	SS	8½	St. Elmo
Adams, Leota Valentine	HSLAS	115	* † Princeville
Adams, Varian Baltzell	LAS		* † Centralia
Adams, Walter Glenn	ChE		* † Kewanee
Adams, Warren David	AE	100⅔	* † Scales Mound
Addems, Walter Joseph	ME		* Manteno
Aden, Christine Frances	LAS		* † Champaign
Affolter, Priscilla Viola	LAS	32	* † Maywood
Agramonte, Roberto	Agr (SS)	28	* † Arequipa, Peru
Ahlers, Ophelia	LAS	75	* † Staunton
Aiken, Joseph Eugene	EE		* † Benton
Ainsworth, Madalane Zelomia	Law	108	* † Chicago
Albaugh, Kathryn Rebecca	HSLAS (SS)	99	* † Berwyn
Albee, Archie Delbert	Com	32½	* † Urbana
Albee, Chester Leon	Agr	114	* Urbana
Albrecht, Daniel Arthur	Agr	162½	* Champaign
Alcivar, Ernest	MdP		* † New York City
Alcorn, Charles William	Com		* † Hardin, Missouri
Alderson, Edmund Waldo	Com	30	* † Chicago
Aldrich, Richard Lewis	LAS	31½	* † Earlville
Alison, Newton Vincent	Com	44	* † Long Beach, California
Alleman, Martin Benjamin	LAS		* † Cedar Point
Allen, Archie Vernon	CE		* † Virden
Allen, Carl Elmer	SS	7½	Marion
Allen, Cecil Violet	HSLAS	67	* † Broadlands
Allen, Frank Oscar, A.B., 1916	SS	189½	Clinton
Allen, Frank Phoenix	SS	21	New Windsor
Allen, Franklin Hendry	ChE	19	* Cleveland, Ohio
Allen, Harriet Horton	HSLAS	99	* † Delavan
Allen, Harry Kenneth	Com	32	* † Broadlands
Allen, Hester Ada	HSAgr	102	* † Delavan
Allen, James Watson	CE		* † Little Rock, Arkansas
Allen, Laurence Holt	Com	36	* † Indianapolis, Indiana
Allen, Lillian	HSLAS		* † Arco, Idaho
Allen, Raymond Earl	ME	33	* † Chicago

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[1] Computed October 1, 1917.

[2] Attendance, first semester, indicated by asterisk (*); second semester, by dagger (†).

Allen, Ruby Elvira	*SS*	*1*		*Lawton, Oklahoma*
Allen, Theodore Raymond	*Agr*	*34*	* †	*Delavan*
Allenbaugh, Opal Clare	*LAS*	*33*	* †	*Greenup*
Allinson, Zella	*HSLAS*		* †	*Urbana*
Allison, Harley Francis	*Com*		* †	*Assumption*
Allspaugh, Hugh Fry	*CE*		* †	*Tonkama, Oklahoma*
Almgren, Louis Everett	*AE*		*	*Chicago*
Alsbury, Rebecca Ann	*SS*	*2⅓*		*Maroa*
Alseth, Hilda Josephine	*Lib*		* †	*Lake Preston, South Dakota*
Alsop, Thomas Vincent	*SS*	*16½*		*Sorento*
Althaus, Florence Gertrude	*SS*	*59½*	†	*Belvidere*
Altpeter, Mabel Gerdena	*LAS (SS)*		* †	*Chicago*
Alverson, Ruth Amelia	*LAS*	*97*	* †	*Urbana*
Alward, Cutler Kenneth	*EE*		* †	*Moweaqua*
Alwood, Fred Ward	*Chem*	*35*	* †	*Clinton*
Amana, Alfred	*LAS*	*62*	*	*Honolulu, Hawaii*
Amberg, William Cameron	*ME*		*	*Chicago*
Amsbary, Addie Elizabeth	*LAS*		* †	*Champaign*
Amsden, Frederic Caleb	*Com*		*	*Atlantic, Iowa*
Amsterdam, Harry	*Lib*	*12*	* †	*Russia*
Anastasoff, Tevitov	*Arch*		*	*Ressen, Servia*
Anastassiades, Ernest	*CE*	*99*	*	*Urbana*
Anderson, Alvin Theodore	*Agr*	*68*	* †	*Wheaton*
Anderson, Birdina Margueritte	*LAS*	*97*	* †	*Urbana*
Anderson, Carl Leonard	*Com*	*106*	*	*Hudson, Wisconsin*
Anderson, Earl William	*LAS*	*100*	* †	*Charleston*
Anderson, Elda Victoria	*HSAgr (SS)*	*101*	* †	*DeKalb*
Anderson, Elizabeth Carolyn	*HSAgr*		* †	*Elgin*
Anderson, George Arthur	*AE*	*33*	*	*Long Beach, California*
Anderson, George Harold	*MinE*	*36*	*	*Lake Forest*
Anderson, Harriet Maybelle	*LAS*	*32*	* †	*Urbana*
Anderson, Jennie	*MdP*	*106*	* †	*Oklahoma City, Oklahoma*
Anderson, Joshua Clayton	*Agr*	*121*	* †	*Williamsport, Indiana*
Anderson, Lawrence Bernard	*ChE*		* †	*East Lynn*
Anderson, Lucile Marian	*LAS*	*41*	†	*Greenwood, Mississippi*
Anderson, Paul Alexander	*LAS*	*71*	* †	*Chicago*
Anderson, Roy B	*Agr (SS)*	*115½*	*	*Winnebago*
Anderson, Roy Taylor	*Law*	*28*	* †	*Evansville, Indiana*
Ando, Ikutaro	*Com*	*89*	* †	*Kagawaken, Japan*
Andren, Erland Fredrick	*MinE*	*34*	* †	*Gary, Indiana*
Andrews, Charles Frederick	*EE*		* †	*Walnut*
Andrews, Elizabeth	*HSLAS (SS)*	*66*	* †	*Urbana*
Andrews, Frank Monroe	*REE*	*35½*	* †	*Dundee*
Andrews, John Harley	*Com*	*66*	* †	*Champaign*
Andrews, Mary Alberta	*HSLAS*	*91*	* †	*Pana*
Andrews, Robert Eugene	*Agr*	*76*	*	*Chicago*
Andrews, Ruth Helen	*LAS*	*99*	* †	*Urbana*
Antoszewski, Robert Horatio	*LAS*	*122*	* †	*Glencoe*
Apostolos, Spiros	*EE*		†	*Greece*
Apple, Frances Elizabeth	*HSLAS*		*	*Robinson*
Appling, John William	*Chem*		* †	*Urbana*
Armington, Clara Grace	*Mus*	*103*	* †	*Dixon*
Armstrong, Alice Nona	*SS*	*130*		*Tolono*
Armstrong, Elizabeth Emily	*LAS*	*79*	* †	*Champaign*
Armstrong, Frederick Carroll	*EE*		* †	*Lincoln*
Armstrong, George Victor	*LAS*	*62*	* †	*Toulon*
Armstrong, Hazel Irene	*Mus*	*73*	* †	*Champaign*
Armstrong, John Harold, A.B., 1917	*Law*	*140*	* †	*Champaign*
Armstrong, Marjorie Annon	*LAS*		* †	*Bloomington*
Armstrong, Oliver Milton	*ME*	*72*	*	*Cleveland*
Armstrong, Thomas Hunter	*Law*	*64*	* †	*Mound City*
Armstrong, Wilber Price	*MdP*	*34*	* †	*Springfield*
Arnold, Ambrose Allen	*ChE*		* †	*Palmerton, Pennsylvania*
Arnold, Charles Vincent	*Agr*	*39*	* †	*LaGrange*
Arnold, Howard Shaver	*Agr*	*100*	*	*Ottawa*
Arnold, John William	*LAS*		* †	*Little Rock, Arkansas*
Arnold, Orville Dayton	*Law*	*55⅓*	*	*Browning*
Arnovitz, Emanuel Morris	*SS*	*8*		*Madison*
Arntzen, Inga Irene, A.B., 1917	*SS*	*130¼*		*Sycamore*
Arrasmith, William Strudwick	*AE*	*21*	* †	*Hillsboro, North Carolina*
Arrick, Herbert McClain	*RME*	*11*	†	*Logansport, Indiana*
Ash, James Landreth	*LAS*	*99*	* †	*Philadelphia, Pennsylvania*
Ashbaugh, Emma Sharp	*SS*			*Iola, Kansas*
Asmus, Willard George	*EE*		* †	*Chicago*
Aspern, Dorothy Ray	*LAS*		* †	*Champaign*
Atteberry, Hazel	*LAS*	*92*	* †	*Hillsboro*
Atteberry, Lester Franklin			*	*Kane*
Auner, Joseph Stuogis	*LAS*		* †	*DesMoines, Iowa*
Aungst, Darius William	*Com*	*39*	* †	*Decatur*
Babb, Margaret Elizabeth	*LAS*		* †	*Homer*
Babcock, Louis Donnelly	*MdP*		* †	*Mason City*
Bacon, Edward McKinley	*LAS*		†	*Chicago*
Badger, Eunice Louise	*LAS (SS)*	*107*	* †	*Ithaca, New York*
Baechler, Matilda May	*HSAgr (SS)*	*122½*	* †	*Grant Park*
Baethke, Lillian Henrietta	*HSLAS*	*37*	* †	*Glen Ellyn*
Bahe, Dorothy Virginia	*LAS (SS)*	*71½*	* †	*Champaign*

Bailey, Earl Willis	*Com*	*93*	* †	*Boody*
Bailey, Florence Adell	*SS*			*Rockford*
Bailey, Hamilton Reninard	*LAS*	*29*	*	*Peoria*
Bailey, Ruth Maria	*LAS*		* †	*Paris*
Bain, Ben Lester	*Agr*		* †	*Chicago*
Baird, Blanchard Maurice	*Agr*		* †	*Marissa*
Baird, Chester Anthony	*LAS*	*36*	* †	*Park Ridge*
Baitinger, Harris George	*Com*		†	*St. Joseph, Michigan*
Baker, Chester Anderson	*EE*		* †	*Weldon*
Baker, Clarence Everett	*Agr*	*66*	†	*Champaign*
Baker, Earl Bogess	*CerE*	*71*	*	*Fairmount*
Baker, Eldred Benjamin	*Com*	*33*	* †	*Riverside*
Baker, Everett	*Agr*		* †	*Brocton*
Baker, Flora Elizabeth	*LAS*	*33*	*	*Decatur*
Baker, Harold Griffith	*LAS*	*32*	* †	*East St. Louis*
Baker, Howard Robert	*Agr*		* †	*Warsaw*
Baker, John Babcock	*ChE*	*27*	* †	*Springfield*
Baker, Walter Lakin	*Com*		*	*Tonti*
Baker, Walter Riley	*Agr*	*35*	* †	*Lafayette, Indiana*
Balch, Nellie Allison	*HSAgr*	*100*	* †	*Lerna*
Balderson, Ted Albert	*AE*	*131*	* †	*Wilber, Nebraska*
Baldwin, Arthur Ernest	*Com*	*37*	* †	*Danville*
Baldwin, Edward Chauncey	*LAS*		* †	*Urbana*
Baldwin, James	*SS*			*South Dennis, Massachusets*
Baldwin, Seward Henry	*EE*		* †	*Highland Park*
Ball, Lee Cleveland	*SS*	*16½*		*Worthington, Indiana*
Ball, Mary Myrtle	*LAS*	*32*	* †	*Webb City, Missouri*
Ballinger, Ione Fredericka	*HSLAS*	*65*	* †	*Chenoa*
Bamberger, Alvena	*LAS* (*SS*)	*8*	* †	*Champaign*
Bamesberger, Velda Christena	*LAS* (*SS*)	*117*	* †	*Urbana*
Bamford, Thomas	*Agr*	*104*	*	*Champaign*
Bancroft, Anna Dewey	*LAS*	*65*	* †	*Maywood*
Bandy, Lorenson	*ME*	*73*	* †	*Lake City*
Banerjee, Monindra	*LAS* (*SS*)	*16*	* †	*Calcutta, India*
Bangert, Clarence John	*Agr*	*62*	* †	*Chicago*
Bankson, Clyde Russel	*Law*		* †	*Pulaski*
Bannen, Robert William	*Chem*	*29*	*	*Rockford*
Barackman, Hazel B	*HSAgr*	*56*	* †	*Streator*
Baraglia. Victor Anthony	*ME*	*73*	* †	*Chicago*
Barber, William	*Com*		* †	*Decatur*
Barclay, Donald Reid	*Com*		* †	*Elgin*
Bard, Catharine Ann	*Mus*		* †	*Buffalo, New York*
Bardwell, Conrad Morton	*LAS*	*75*	* †	*Aurora*
Barge, William	*Com*		*	*Dixon*
Barker, Annie Eliza	*LAS*	*21*	* †	*Bondville*
Barker, Roy Leslie	*AE*		* †	*Rock Island*
Barklage, Oliver Frederick	*EE*	*65*	* †	*St. Charles, Missouri*
Barkman, Marcus Glazer	*SS*	*52½*		*Princeton*
Barkstrom, Walter Rudolph	*CE*	*89*	* †	*Chicago*
Barnaby, Jessie Miriam	*LAS*	*31*	* †	*Greensburg, Indiana*
Barnard, Randolph Hundley	*Chem*		* †	*East St. Louis*
Barnes, Bernita Thayer	*Mus sp*		†	*Champaign*
Barnes, Clara Mae	*LAS sp*		†	*Albia, Iowa*
Barnes, Clifton Eugene	*ChE*	*67*	* †	*Mt. Carmel*
Barnes, Esther Elizabeth	*Agr*		* †	*Chicago*
Barnes, Howell Hart	*Arch* (*SS*)	*68*	*	*Chicago*
Barnes, Irma Margaret	*HSLAS*	*60*	* †	*LaGrange*
Barnes, Mary Grace	*Lib*	*48*	* †	*Lafayette, Indiana*
Barnes, Roy Elvin	*Agr*		†	*Kansas City, Missouri*
Barnes, Ruth Lillian	*LAS*	*111*	*	*Oak Park*
Barnes, Winifred	*HSLAS*	*103*	* †	*Kansas City, Missouri*
Barnett, Kenneth Klon	*EE*		* †	*Wellington*
Barnett, Richard Parker	*LAS*		* †	*Lafountaine, Indiana*
Barousse, Ignacio Carlos	*AE*		†	*Mexico City, Mexico*
Barr, Lola Rea	*SS*	*18½*		*Greenville*
Barr, Oren Augustus, A.M., 1914	*SS*			*Bunker, Missouri*
Barrett, Robert	*Agr*		†	*Chicago*
Barry, Jennis Eulalia	*LAS* (*SS*)	*114*	* †	*Champaign*
Barry, Walter Andress	*EE*		* †	*Chicago*
Bartels, Leo Franz	*Com*	*28*	*	*Hamilton, Ohio*
Bartholomew, Harold L	*Arch*		* †	*Indianapolis, Indiana*
Bartholomew, Herbert	*Com*	*63*	*	*Indianapolis, Indiana*
Bartholomew, Maynard Todd	*ME*		* †	*Chicago*
Bartholomew, Ruth Porter	*LAS*	*96*	* †	*Table Grove*
Bartlett, Charles Henry	*CE*	*2*	* †	*Chicago*
Bartlett, Harry Owen	*Arch 133*		†	*Eau Claire, Wisconsin*
Bartlett, William Henry	*Agr*	*34*	* †	*Fairbury*
Bartling, Arthur William	*EE*	*73*	* †	*Litchfield*
Barton, Arthur Layton	*Law*	*38*	* †	*St. Louis, Missouri*
Bartos, Bohuslav	*CE*	*84*	* †	*Chicago*
Bash, Florence Anne	*LAS*		* †	*Champaign*
Bass, Fred	*Agr*	*34½*	* †	*Armstrong*
Bassett, Bernice Claire	*HSLAS*		* †	*Hammond, Indiana*
Bassett, Vera Vivian	*LAS*		†	*Champaign*
Bassman, Herbert J	*LAS*		* †	*Milwaukee, Wisconsin*
Batson, John Thaddeus	*ChE* (*SS*)	*92*	* †	*Marshall*

Battey, Leslie James	*ME*	*37*	*	†	*Tiskilwa*
Bauer, Ezra Edward	*CE*	*72½*	*	†	*Toledo, Ohio*
Bauer, Irving Newell	*Agr*	*46*	*		*Compton*
Baujan, Paul Cecil	*Com*		*	†	*Beardstown*
Baum, George Humphrey	*Com*	*31*	*	†	*Morris*
Baum, Margaret Sutton	*LAS*	*66*	*	†	*Shelbyville*
Baum, Ray Alonzo	*LAS*		*	†	*Quincy*
Baum, Wells	*MdP*		*	†	*Shelbyville*
Baumer, Harry William	*EE*		*	†	*Chicago*
Baumgardner, Karl Conant	*LAS*		*	†	*Sioux Falls, South Dakota*
Baumunk, Ross Sonnefield	*Com*		*	†	*Brazil, Indiana*
Baxter, Raymond Leroy	*ChE*		*		*Detroit, Michigan*
Bay, Edwin	*Agr*		*	†	*Aledo*
Bayley, Emily Elizabeth	*LAS* (SS)	*37½*	*	†	*Urbana*
Baysinger, Walter George	*Agr*	*68*	*	†	*Aurora*
Beach, Mrs. Blanche Stipp, B.Mus. 1915	*Mus*	*130*	*		*Champaign*
Beach, Clara May	*SS*	*5*			*Champaign*
Beach, Frank, A.B., 1916	*Mus*	*130*	*	†	*Champaign*
Beach, Julian Burdette	*Agr*	*32*	*		*Ottawa*
Beals, Clarence Hubert	*Agr*	*51*	*	†	*Altona*
Bean, Donald Eckhart	*LAS*		*	†	*Chicago*
Bean, Lucy Irene	*HSAgr*		*	†	*Urbana*
Bear, Chester Randall	*Com*	*107*	*		*Ludlow*
Beard, Marshall Arthur	*EE*		*	†	*Petersburg*
Beatty, Charles Lloyd	*Agr*	*6½*	*	†	*Paris*
Beatty, Elsie	*LAS*		*	†	*Paris*
Beatty, Grace Elizabeth	*SS*	*41*			*Urbana*
Beatty, Owen Chauncey	*Agr*	*103*	*	†	*Pittsburgh, Pennsylvania*
Beaudry, Louis Hayne	*ChE*	*31*	*	†	*Chicago*
Beaumont, Thomas Morgan	*LAS*		*	†	*Kankakee*
Becht, Emmy	*LAS*		*	†	*Brannfels, Germany*
Beck, Gerald Eugene	*Arch*	*70*	*		*Long Beach, California*
Beck, Ruth Marie	*HSLAS* (SS)	*100*	*	†	*Champaign*
Becken, Albert Charles	*Com*	*31*	*	†	*Park Ridge*
Becker, Frederick William	*Com*	*22*	*	†	*Chicago*
Becker, William Dewey	*EE*		*		*Urbana*
Bee, Winifred Marian	*LAS*	*99½*	*		*Chicago*
Beebe, Walter Ewart	*ChE*		*	†	*Chicago*
Beeby, Lois Ellen	*HSLAS*		*	†	*Urbana*
Beeby, Ruth Alice	*SS*	*52*			*Urbana*
Beechler, Arthur Karl	*EE*		*	†	*Springfield*
Beedy, Lucille Emily	*LAS*		*	†	*Manteno*
Beekmann, Harry Louis	*Com*		*	†	*Chicago*
Beekmann, Henry Louis	*Com*		*	†	*Chicago*
Beggs, Charles Norman	*CE*		*	†	*Peoria*
Behrens, Martin Albert	*Com*	*71*	*	†	*Crete*
Beidler, Herbert Bishop	*Arch*	*72*	*	†	*Auburn, Indiana*
Beien, Frank Michael	*Com*	*33*	*	†	*Sterling*
Belford, Hugh Othel	*SS*	*15½*			*Marion*
Bell, Cecile Mary	*LAS*	*76*	*	†	*West York*
Bell, Donald Sexton	*Law*		*	†	*Springfield*
Bell, Edith May	*LAS* (SS)	*88½*	*	†	*Milton, Iowa*
Bell, Harold Philip	*Com* (SS)	*36*	*	†	*Chicago*
Bell, Lowell Emma	*LAS*	*36*	*	†	*West York*
Bell, Mary Elizabeth	*Agr*	*60*	*	†	*Champaign*
Bell, Norma Elizabeth, A.B., 1917	*SS*	*130½*			*West York*
Bell, Richard Edwin	*ME*		*	†	*Chicago*
Bell, Robert Daniel	*Agr*	*32*	*	†	*Joliet*
Belle-Isle, Bertha Olivine	*Mus*	*15*	*	†	*Champaign*
Beloian, Haig	*Agr*	*67*	*	†	*Chicago*
Belt, Ford Elven	*Agr*		*	†	*Prophetstown*
Bench, Stella Louise	*SS*	*96½*			*Galena*
Benedict, Ralph Preston	*Com*	*18½*	*		*Omaha, Nebraska*
Benedict, Vivian Irene	*Mus*	*33*	*	†	*Savanna*
Benjamin, Franke Atha	*Mus sp*			†	*Rantoul*
Bennett, Basil	*Agr*	*100*	*		*Dudley*
Bennett, Emil Cline	*Agr*	*67*	*	†	*Dudley*
Bennett, John Chase	*ChE*		*		*Chicago*
Bennett, Marie	*HSLAS*	*57*	*	†	*Champaign*
Bennett, Parker William	*Com*	*68*	*	†	*Metcalf*
Bennett, Raybern Shade	*Agr*		*		*Benton*
Bennett, Wayne Rosleyn	*Com*	*33*	*	†	*Washington*
Bennett, William Lee, A.B., 1902	*Agr*		*		*Urbana*
Benson, George Edwin William	*Agr*		*		*Chicago*
Benson, Harold Guss	*Com*		*	†	*Mt. Carroll*
Benson, Lois Pope	*SS*	*81*			*Herrin*
Benson, Merril Philip	*CE*		*	†	*Galva*
Benthien, Hans John	*Agr*	*14*	*	†	*Tacoma, Washington*
Bentley, Beulah Beatrice	*LAS* (SS)	*95½*	*	†	*Clinton*
Bentley, Howard Huston	*ME*	*32*	*	†	*Clinton*
Benton, Curtis	*LAS*	*30*	*	†	*Macomb*
Benway, Frank Anton	*AE*		*	†	*Sherburn, Minnesota*
Benzing, Allan Sawyer	*ME*		*	†	*Evanston*
Berg, LeRoy Taatjes	*LAS*		*	†	*Champaign*
Berger, Cora	*LAS*	*98*	*	†	*Davenport, Iowa*
Berger, Henry George	*ChE*		*	†	*Chicago*

Bergren, Raymond Dewey	*Com*			†	*Chicago*
Berlin, Harold Robert	*Arch*	*13*	*	†	*Chicago*
Berner, Louis Rolland	*ChE*	*100*	*	†	*Indianapolis, Indiana*
Berners, Edgar Hubert	*CE*		*	†	*Port Washington, Wisconsin*
Bernhardt, Wilbert	*CE*	*35*	*	†	*South Bend, Indiana*
Bernhisel, Luther Melancthon	*CE* (*SS*)	*17*	*		*Evanston*
Bernrenter, Ruth	*LAS*		*	†	*Nashville*
Bernstein, Dion Sol	*Agr*		*	†	*Chicago*
Berry, Lawrence Joseph	*Agr*		*	†	*El Paso*
Berryman, Orus Kenneth	*LAS*	*29*	*	†	*Scottville*
Berryman, Paul Ruyttler	*Com*	*94*	*		*Downers Grove*
Best, Julia Frances	*LAS*		*	†	*Milford*
Beaust, Carl	*Agr* (*SS*)	*94*	*	†	*LaCrosse, Wisconsin*
Bickel, John Joseph	*Arch*	*73*	*		*Chicago*
Biedermann, Edward Adolph	*Com*	*31*	*		*Chicago*
Bierbaum, Elmer Alfred	*Agr* (*SS*)	*113½*	*		*Alton*
Biesecker, Hiram Lewis	*ME*	*36*	*		*White Heath*
Bilderback, Gordon Butler	*Com*	*31*	*	†	*Champaign*
Bilik, Samuel	*MdP*	*28½*	*		*Franklin Park, New Jersey*
Bing, Bertha Helen	*Law* (*SS*)	*117½*	*	†	*Urbana*
Binyon, Josephine Armstrong	*SS*	*1*			*Urbana*
Birchard, John Wesley	*ChE*	*124*	*	†	*Urbana*
Birchard, Leola Mary	*HSAgr* (*SS*)	*100*	*	†	*Urbana*
Birdsall, Charles Griffen	*ChE*	*66*	*	†	*Clinton Corners, New York*
Birdzell, William Isaac	*SS*	*77½*			*Neoga*
Birks, Helen Eola	*HS Agr*			†	*Cornland*
Birks, John Milton	*Agr*	*97*	*	†	*Cornland*
Bishop, Walter Giles	*Arch*	*63*	*	†	*Auburn, Indiana*
Black, Albert Gain	*Agr*	*54½*	*	†	*Mapleton*
Black, Beryl A	*LAS* (*SS*)	*104*	*	†	*Paris*
Black, Frank Wilson	*Com*			†	*Chicago*
Blackard, Mary	*LAS*		*	†	*Harrisburg*
Blackburn, Bertha Florence	*Lib sp*		*		*Champaign*
Blackburn, Godfrey Cecil	*Agr*		*	†	*Downers Grove*
Blackman, Alfred Watson	*Agr*		*	†	*Bloomington*
Blackstone, Abraham	*CE*	*108*	*		*Chicago*
Blackstone, Henry	*EE*	*31*	*	†	*Chicago*
Blair, Daniel Augustus	*Law*	*69*	*	†	*Murphysboro*
Blair, Eva Lena	*SS*	*4*			*Sullivan*
Blair, Josephine VanHorn	*Agr*		*	†	*Urbana*
Blair, Thomas Edison	*EE*		*	†	*Sao Paulo, Brazil*
Blakeslee, Elizabeth	*HSLAS*		*	†	*DuQuoin*
Blevins, Lusettie	*SS*	*7½*			*Atwater*
Blinn, Edwin Ralston	*Com*		*		*Butte, Montana*
Bliss, James Harrison, Jr.	*LAS*		*	†	*Little Rock, Arkansas*
Bliss, Wyllys King	*Com*			†	*St. Louis, Missouri*
Blocker, Henry Friedrick	*AE*		*	†	*Valparaiso, Indiana*
Bloodgood, Owen	*Com*	*33*	*	†	*Aurora*
Bloodgood, Wylie	*Arch*	*72*	*	†	*Aurora*
Bloom, Ralph Merrill	*Com*	*26*	*	†	*Chicago*
Bloomingdale, Paul Harold	*SS*	*15½*			*Shabbona Grove*
Blount, Walter	*LAS*		*	†	*Oak Park*
Bly, Anna Harriet	*LAS*		*	†	*Morris*
Board, Harry Lee	*LAS*		*	†	*Memphis, Missouri*
Bodenschatz, Arthur Harold	*ME*	*76*	*	†	*Chicago*
Boehmer, Louise	*HSLAS*	*94*	*	†	*Springfield, Missouri*
Boellner, Virginia Mildred	*Com*	*31*	*	†	*St. Louis, Missouri*
Boeschenstein, Charles Krome	*LAS*	*25*	*	†	*Edwardsville*
Boesen, Peter John	*EE*	*69*	*	†	*Cabery*
Bohn, Fred	*LAS*		*	†	*Algona*
Bohrer, Joseph Fifer	*Agr*		*	†	*Bloomington*
Bohrer, William LeRoy	*Com*	*59*	*	†	*Falls City, Nebraska*
Boice, Milford Coates	*EE*	*31½*	*	†	*Champaign*
Boland, Edward Harold	*EE*	*25*	*	†	*Joliet*
Bolen, Mabel Helen	*LAS*	*99*	*	†	*Kansas City, Missouri*
Boley, Bess	*SS*	*6⅚*			*Calhoun*
Bolt, William Weeks	*Com*		*	†	*Springfield*
Bolton, Ralph Waldo	*EE* (*SS*)	*132½*	*	†	*Champaign*
Bolton, Wyman Jesse	*ME*	*108*	*	†	*Nauvoo*
Bond, Clayborne Austin	*LAS*		*		*Assumption*
Bonnen, Clarence Alfred	*Agr*	*69*	*		*Gibson City*
Boodel, Cletus J	*LAS*		*	†	*Harvard*
Boone, Chester Arthur	*Com*		*	†	*Tolono*
Borelli, Aurelio	*EE*		*	†	*Sao Paulo, Brazil*
Borgmeier, Caspar Oscar	*Com*	*32*	*	†	*Edwardsport, Indiana*
Borland, Harold Robert	*CerE*		*	†	*Hanna City*
Born, Charles Edgar	*Agr*	*100*	*	†	*Cerro Gordo*
Borucki, Louis Francis Felix	*ME*	*104*	*	†	*Chicago*
Bosart, Hugh Allen	*Com*	*26*	*	†	*Olney*
Bosworth, Howard Ralph	*EE*	*37*	*	†	*Marseilles*
Boucher, Nellie Genevieve	*LAS*	*100*	*	†	*Carbondale*
Boudinot, Raymond	*Com*	*36*	*		*Davenport, Iowa*
Bourgeois, Rosalie Elizabeth	*HSLAS*			†	*La Grange*
Bowditch, Fred Tryon	*EE*	*72*	*	†	*Urbana*
Bowditch, Harvey Russell	*Agr*	*35*	*	†	*Urbana*
Bowen, Gertrude Louise	*Mus*		*	†	*Jerseyville*

Bower, Harriet Jean	*MdP*	*32*	*	†	*Urbana*
Bowersock, William Michael	*EE*	*76*	*	†	*Maroa*
Bowles, Walter Sheriff	*SS*	*70*			*Springfield*
Bowlus, Hazel W, A.B., 1915	*SS*	*136½*			*Champaign*
Bowman, Floyd Walton	*Agr*		*	†	*Owaneco*
Bowman, John Stanley	*ME*		*	†	*Rockford*
Bowman, Merton Wilson	*Com*		*	†	*Blavistown, New Jersey*
Bowman, Newell	*Chem*	*19*	*		*Carrollton*
Boyarski, Maurice	*LAS*		*	†	*St. Louis, Missouri*
Boyd, Anne Morris	*Lib*	*4*	*	†	*Arthur*
Boyd, William Ralph	*Agr*	*34*	*		*Gays*
Boyle, Esther Hortense	*HSAgr*	*101*	*	†	*Hennepin*
Boyle, Ruth Frances	*LAS*	*31*	*	†	*Stonington*
Boyle, Violet Beatrice	*HSAgr*	*64*	*	†	*Hennepin*
Boyles, Berlyn Louis	*Chem*		*	†	*Paris*
Bradbrook, Arthur Nelson	*LAS*	*28*	*	†	*Oak Park*
Bracewell, Vera Faye	*HSLAS*		*	†	*Kincaid, Kansas*
Bracken, Dwight Funk	*Agr*	*32*	*		*Bloomington*
Bradbury, Marie Margaret	*HSLAS*	*33*	*	†	*Urbana*
Bradford, Helen Marie	*Mus*			†	*Hindsboro*
Bradley, Catherine Louise	*LAS*			†	*Champaign*
Bradley, Rachael	*LAS*		*	†	*Loda*
Brady, Harry William	*Com*			†	*Peoria*
Brady, May Frances	*LAS*	*64*	*	†	*Champaign*
Braley, Ruby Eleanor	*HSAgr*		*	†	*Cherokee, Iowa*
Brame, Millard Everett	*Agr*	*33*	*	†	*LeRoy*
Bramer, Max L	*EE*		*	†	*Granite City*
Bramwell, Harry Lisle	*LAS*		*	†	*Blackfoot, Idaho*
Brand, Marjorie Lilah	*LAS*	*117*	*		*Normal*
Brandon, Eugenie Josephine	*LAS*	*111*		†	*Farmer City*
Brandt, Bert Helker	*SS*				*Nokomis*
Branham, Ivan Bundy	*ME*		*	†	*Urbana*
Branham, Marcus Huber	*ME*	*9*	*	†	*Urbana*
Brant, Golda Mary	*LAS*		*	†	*Hamilton*
Brant, John Bennett	*Com*		*	†	*Bushnell*
Braucher, Margaret Doten	*LAS*		*	†	*Emporia, Kansas*
Brauer, Henry Ernest	*LAS (SS)*	*47½*	*	†	*Red Bud*
Braun, George Jr.	*Arch*	*71½*	*	†	*Chicago*
Brauns, Helen Marie	*HSLAS*	*65*	*	†	*West Chicago*
Brazeau, Guy Stanton	*Com*	*19*	*		*Nekorsa, Wisconsin*
Brazelton, Calanthe Miriam	*LAS*	*98*	*	†	*Greensburg, Indiana*
Breathwit, Rachael Augusta	*LAS*	*35*	*	†	*Little Rock, Arkansas*
Brede, Erwin Charles	*Arch (SS)*	*38*	*	†	*Collinsville*
Brede, Lothar Homer	*Chem (SS)*	*104*	*		*Collinsville*
Bredehoeft, John Fred	*ChE*		*	†	*St. Louis, Missouri*
Bredeweg, Edyth Lorene	*LAS*		*	†	*Quincy*
Breece, Howard David	*LAS (SS)*	*100*	*	†	*Mt. Vernon, Indiana*
Brees, Paul Rex	*LAS*		*	†	*Wichita, Kansas*
Breetwor, Israel	*Com*			†	*Pueblo, Colorado*
Breeze, Retha Edith	*SS*	*7½*			*Woodlawn*
Bregman, Walter Isadore	*Com*	*31*	*	†	*Chicago*
Breitstadt, Emma Matilda, A.B., 1916	*LAS*		*	†	*Quincy*
Bremer, Abraham Meyer	*Com*	*63*	*	†	*Depue*
Bremner, Annabel Frances	*LAS*	*30*	*	†	*LaGrange*
Brensky, Abe	*CE*		*	†	*Chicago*
Brenneman, Charles Gage, A.B., 1917	*SS*	*140*			*Cairo*
Brewer, Clara Lucile	*SS*	*9*			*Chicago*
Brewster, William Goeldard	*Com*	*16*	*	†	*Chicago*
Breyfogle, Ruth Edith	*LAS*	*68*	*	†	*Crown Point, Indiana*
Bridson, Myrtle Lillian	*HSAgr*	*31*	*	†	*Brimfield*
Brigham, Erwin Risley	*Com*	*108*	*	†	*Glencoe*
Bright, John William	*EE*		*	†	*Chicago*
Bright, Lois Esther	*HSLAS*		*	†	*Marengo*
Britt, Marie Anne	*HSLAS*	*33*	*	†	*Freeport*
Britton, Erma Estal	*MdP*		*	†	*Gibson City*
Britton, Joseph Walter	*LAS*	*27½*	*		*Rockville, Indiana*
Broaddus, Verlin T	*Com*		*		*Sidell*
Broadhurst, Elizabeth Maury	*HSLAS*	*32*	*	†	*Champaign*
Broadhurst, Tabitha Jayne	*Com*		*	†	*Champaign*
Broadwell, Agnes Marie	*HSLAS*	*99*	*	†	*Fairbury*
Brock, Thomas Hugh	*Agr*	*67*	*	†	*Waynesburg, Pennsylvania*
Brockett, Katy Fay	*Mus*		*	†	*Fairfield*
Brockmeier, Martha Matilda	*HSLAS (SS)*	*64*	*	†	*Freeport*
Broeker, Clarence Ehnie	*LAS*	*60*	*	†	*Beardstown*
Bromm, Alvin Carl	*Agr*	*107*	*		*Evansville, Indiana*
Bronson, Ethel	*Com*			†	*Chicago*
Brook, Clarence Louis	*EE*	*31*	*	†	*Trenton*
Brookey, Inez	*LAS*		*	†	*Blackwell, Oklahoma*
Brooks, Edith	*SS*	*1½*			*Urbana*
Brooks, Frona Marguerite	*HSLAS (SS)*	*1½*	*	†	*Urbana*
Brooks, Joseph Chaney	*Agr*	*67*	*	†	*Forreston*
Broom, Cohea Allen	*Com*		*	†	*Effingham*
Broom, Mybert Eustala	*Chem*		*	†	*Effingham*
Broshar, Helen	*LAS*	*33*	*	†	*Champaign*
Brown, Bruce Keith	*Chem (SS)*	*87*	*	†	*Wilmette*
Brown, Elmer Ellsworth	*Agr*	*106*	*	†	*Noblesville, Indiana*

Brown, Geraldine A	*HSLAS*	*50*	* †	*Kansas City, Missouri*
Brown, Gladys Elsie	*LAS*		†	*Peoria*
Brown, Grace Voris	*LAS*	*65*	* †	*Findlay*
Brown, Lorene	*LAS*	*30*	* †	*Genoa*
Brown, Marion Elizabeth	*HSAgr*		* †	*Honolulu, Hawaii*
Brown, Olive May	*Mus*	*93*	*	*Urbana*
Brown, Ralph Hadden	*Agr*	*29*	* †	*Cutler*
Brown, Ralph Newton	*Agr*	*16*	* †	*Greensburg, Indiana*
Brown, Stanley Lewis	*Agr*		*	*Chicago*
Brown, Victor Israel	*LAS (SS)*	*16*	* †	*Oblong*
Brown, Wallace Winthrop	*Law*	*5*	* †	*Joliet*
Browne, Robert Bell	*LAS*		* †	*Carbondale*
Brownfield, Georgia, B.S., 1917	*SS*	*130*		*Urbana*
Browning, John Roy	*Law*	*28*	*	*Golconda*
Bruder, Frank Leon	*CE*		* †	*Bondville*
Bruell, Edna	*HSLAS*		* †	*Earlville*
Brun, Louise Dorothy	*LAS*		*	*Blue Island*
Brunker, Edith Winifred	*SS*	*33*	*	*Ritey*
Brunkow, Norman Ferdinand	*AE*	*169*	* †	*Dubuque, Iowa*
Brunnemeyer, Henry Ragurt	*Agr*	*33*	* †	*Aurora*
Bruns, Clausy Leslie	*EE*	*73*	* †	*Hartsburg*
Brya, Edward Gunning	*Agr*	*99½*	*	*Tolono*
Byra, Francis Erle	*Com*	*51*	* †	*Tolono*
Bryan, Helen Gordon, A.B., 1906	*SS*			*Champaign*
Bryant, Anna May	*LAS*		* †	*Chicago*
Bryant, Robert Alfred	*Com*	*104*	* †	*LaGrange*
Buchen, Helen Louise	*LAS (SS)*	*103½*	* †	*Montello, Wisconsin*
Buckheit, George Clifford	*CE*		* †	*Beardstown*
Buckler, George Edmund	*LAS*		*	*Paris*
Buckler, Helen Irene	*LAS*	*32*	*	*Champaign*
Buckler, Joseph Bruce	*LAS (SS)*	*108*	*	*Metcalf*
Bucky, Philip Barnett	*MinE*	*36*	* †	*Chicago*
Buehler, Albert Carl	*Agr*	*48*	*	*Chicago*
Buehler, Herman Lenard	*Agr*		* †	*Chicago*
Buell, Mary Elizabeth	*HSAgr*		* †	*Randalia, Iowa*
Buhrman, William Lane	*MdP*	*33*	* †	*Nashville*
Buland, Harry Marshall	*SS*	*8*		*Fenton, Michigan*
Bull, Willard Edwin	*EE*	*106*	* †	*Elgin*
Bullock, Geraldine Salisbury	*HSLAS*	*87*	* †	*Tonica*
Bumann, Albert T	*Chem*	*101*	*	*Litchfield*
Bumstead, Ernest E	*LAS*	*81*	* †	*Dundee*
Bumsted, Vera Frances	*LAS*		* †	*Woodstock*
Bungard, Hazel Elizabeth	*SS*			*Terre Haute, Indiana*
Bunn, William Benton	*Agr*	*60*	* †	*Olney*
Buntin, Catharine	*HSLAS*		* †	*Chicago*
Burgan, Laverne	*HSLAS*	*112*	* †	*Ridgefarm*
Burgee, James Rudolph	*EE*		* †	*St. Louis, Missouri*
Burgesen, John Christian	*CE*		* †	*Kansas City, Missouri*
Burgess, Lorraine Plessa	*LAS*		* †	*Galva*
Burgess, Robert Earle	*Com*	*28*	*	*Benton*
Burgy, Henry Maximilian	*Agr sp*		†	*Chicago*
Burk, Leo	*LAS*		* †	*Danville*
Burke, Catherine Agnes	*Com*		* †	*Champaign*
Burke, Eugenia Gertrude	*LAS*		* †	*Carlinville*
Burke, John Arthur	*ME*	*34½*	* †	*Champaign*
Burleigh, Inez Lillian	*LAS*	*101*	* †	*Crystal Lake*
Burleson, Howard Chauncey	*Com*	*33*	* †	*Champaign*
Burley, Paul Brown	*EE*	*40*	* †	*LaGrange*
Burnell, William Reese	*EE*		* †	*Spring Valley*
Burnett, Woodford Dulaney	*ME*		* †	*Marshall*
Burnham, Robert Davison Jr.	*Agr*		†	*Champaign*
Burns, Ralph Francis	*Com*	*32*	* †	*St. Louis, Missouri*
Burr, Anna Burrell	*LAS*		* †	*Centralia*
Burt, Josephine	*Agr*		* †	*Urbana*
Burtnett, Reid Albert	*EE*	*105½*	* †	*Chicago*
Burton, Calvin Arthur	*CE*		* †	*Chicago*
Burton, Ruth Beatrice	*LAS*		* †	*Urbana*
Burwash, Grace Sarah	*HSLAS*	*79*	* †	*Champaign*
Burwash, Lois Irene, A.B., A.M., 1906-07	*HSLAS*		* †	*Champaign*
Burwash, Lucie Pauline	*HSLAS*	*67*		*Champaign*
Burwash, Ruth Margaret	*HSLAS*	*73*	* †	*Champaign*
Buschmann, William Henry Herman	*LAS (SS)*	*94*	* †	*Edwardsville*
Busey, Josephine Katherine, A.B., 1917	*LAS*		*	*Urbana*
Busey, Margaret Jeannette	*LAS*	*32*	* †	*Urbana*
Bush, Alexander T	*Chem*	*96½*	* †	*Glencoe*
Busse, Edward Clarence	*CE*	*33*	* †	*Chicago*
Busse, Irvin Arthur	*ChE*		*	*Chicago*
Butler, James Grove	*SS*			*Charleston*
Butler, John Bruce	*AE*		* †	*Cairo*
Butler, Maude Marie	*HSLAS*	*26*	* †	*Chatham*
Butts, Molly Drew	*SS*			*Schenevus, New York*
Butzer, Goldia Grayce	*LAS*	*79*	* †	*Hillsdale*
Byerhoff, William Javins	*Law*		*	*Shabbona*
Byers, Bessie Bradshaw	*LAS*	*98*	* †	*Charleston*
Byers, Edwin William	*AE*	*84*	* †	*Harvey*
Bysack, Bhupendra Nath	*Com*		* †	*Calcutta, India*

Cade, Harriet Clark	*SS*	*86*			*Veedersburg, Indiana*
Cagann, Oscar William	*Com*	*31*	*	†	*Champaign*
Cahill, Charles Adams	*AE*	*36*	*		*Milwaukee, Wisconsin*
Cain, Leslie Ora	*Agr*		*		*Bowen*
Calderwood, Sarah Ruth	*HSLAS*	*89*	*	†	*Grinnell, Iowa*
Cadwell, George Ernest	*Agr*		*	†	*Williamsville*
Caldwell, Mary Lathrop	*LAS*	*97*	*	†	*Champaign*
Caldwell, Neal Williard	*Com*	*25*	*	†	*Champaign*
Callard, Edwin G	*AE*		*		*Chicago*
Calvin, Ben Willis	*LAS*	*68*	*		*Washington, D. C.*
Cameron, George Martin	*Agr*	*114*	*		*Dundee*
Cameron, William Ray	*ME*	*30*	*	†	*Galesburg*
Campbell, Carlos Wilbur	*Com*	*13*	*		*Virginia*
Campbell, David Joseph, B.S., 1916	*SS*	*164*			*Urbana*
Campbell, Dewey Museott	*LAS*	*28*	*		*San Bernardino, California*
Campbell, Ethelred Erasmus	*Chem* (*SS*)	*109*	*	†	*Jamaica*
Campbell, George Albert	*Law*	*58*	*	†	*Lead, South Dakota*
Campbell, Glenn	*LAS*	*34*	*		*Tulsa, Oklahoma*
Campbell, Herbert Edwin	*ME*		*	†	*Chicago*
Campbell, Isabel Catherine	*LAS*		*	†	*Hanover*
Campbell, Marshall	*Com*	*99*	*		*Chicago*
Campbell, Nigel Dovell	*LAS*	*33*	*		*Albion*
Canaday, Alice Creighton	*SS*	*55*			*Chicago*
Canaday, Hermas Maxwell	*Agr*		*	†	*Georgetown*
Canary, Alexander Joseph	*ChE*			†	*Chicago*
Cannon, Joseph William, Jr.	*Law*		*	†	*Chicago*
Cannon, Lester Cloyd	*Agr*	*67*	*	†	*Tower Hill*
Cannon, Opal	*LAS*	*29*	*	†	*Fairmount*
Canter, Mrs. Edna Maloy	*LAS*	*15*	*	†	*Champaign*
Cantrell, Robert McFall	*Com*		*	†	*Benton*
Cantrell, Tilman Bethel	*LAS*		*	†	*Benton*
Canty, Francis Coulson	*LAS*		*	†	*Chicago*
Capouch, Myron E	*CE*		*	†	*Oak Park*
Carley, Ralph Alger	*Com*		*	†	*Mt. Carroll*
Carlsen, Ralph Armond	*Com*	*68*	*		*Chicago*
Carlson, Alice Mae	*LAS*	*57*	*	†	*San Diego, California*
Carlson, Arthur George	*Agr*	*23*	*		*Rockford*
Carlson, Harry Donald	*CE*		*	†	*Chicago*
Carlson, Helen Marie	*LAS*	*67½*	*	†	*Chicago*
Carlson, Reuben Godfrey	*Agr*		*	†	*Chicago*
Carlson, Richard John	*Arch*	*71*	*	†	*Chicago*
Carlson, Ruth Eleanor	*SS*				*Jacksonville*
Carlson, Winifred Jean	*LAS*	*33*	*	†	*Chicago*
Carman, Elinor Louise	*HSLAS*	*33*	*	†	*Chicago*
Carman, Florence	*HSLAS*	*99*	*	†	*Goodwine*
Carman, Omar Sinn	*Agr*		*	†	*Urbana*
Carnahan, Charles Evert	*EE*		*	†	*Lead, South Dakota*
Carney, Sidney Sylvester	*Agr*	*84*	*		*Steward*
Carpenter, Ralph Emerson	*EE*		*	†	*Amboy*
Carr, Harris	*Com*	*33*	*	†	*Tipton, Indiana*
Carr, Kenneth Wright	*ME*	*99¾*	*		*Oak Park*
Carrier, Earle Wesley	*CE*	*109*	*	†	*Chicago*
Carrington, John Wesley	*SS*	*8*			*Loda*
Carroll, Albert	*Com*		*	†	*Urbana*
Carroll, Catharine	*LAS*		*	†	*Urbana*
Carroll, Charles Jr.	*Com*	*66*	*	†	*Urbana*
Carroll, Ella Beatrice	*HSLAS*	*30*	*	†	*Brownstown*
Carson, Gerald Hewes	*LAS*		*	†	*Carrollton*
Carson, Russell Miller	*ME*		*		*Des Moines, Iowa*
Carter, Benjamin Franklin	*CerE*	*106*	*	†	*Peoria*
Carter, Charles Shelby	*Agr*	*34*	*	†	*Owensboro, Kentucky*
Carter, Charles Willard	*CE*	*34¾*	*	†	*Clinton*
Carter, Frank Stanley	*EE*	*37*	*	†	*Litchfield*
Carter, Herbert Duane	*LAS*		*	†	*Cleveland, Ohio*
Carter, Lindley Lee	*Agr*	*86*	*	†	*Hillsboro, Ohio*
Carter, Wilbur M	*Arch*	*72*	*	†	*Indianapolis, Indiana*
Carthaus, William James	*ChE*	*35*	*	†	*St. Louis, Missouri*
Carvalho, Romen de Souza	*Agr*	*17*	*		*Rio de Janeiro, Brazil*
Carver, Frederick Elmer	*Agr*	*31*	*	†	*Berwyn*
Carver, Roger Dickinson	*ChE*		*	†	*Chicago*
Cary, Malcolm Combs	*ME*	*86*	*		*Oak Park*
Cash, Madia Alice	*SS*				*Greenup*
Caskey, Arthur David	*EE*	*74*	*	†	*Chicago Heights*
Caskey, George Rollin	*ME*		*	†	*Chicago Heights*
Cassella, William Nathan	*ME*	*67*	*	†	*Alton*
Cassidy, Claudia Caroline	*LAS*		*	†	*Urbana*
Cassidy, Grattan George	*Arch*	*53½*	*	†	*Urbana*
Cassidy, Marie Gertrude	*HSLAS*		*	†	*Jasper, Indiana*
Cassman, Irving	*EE*	*2*	*		*Chicago*
Castle, Ora Blanche	*Mus* (*SS*)	*30*	*		*Urbana*
Catlett, Kemp Roudebush	*Com*	*35*	*	†	*Fairmount*
Caton, Marie Elizabeth	*SS*				*Joliet*
Cattell, Fred Ray	*Com*	*55*	*		*Salem*
Catton, Miles Dewey	*CE*	*37*	*	†	*Toulon*
Cavanaugh, Marie Elizabeth	*LAS*	*64*	*	†	*Urbana*
Cavins, Joe Loren	*EE*		*	†	*Normal*

Cecil, Laurence Keith	SS	96½			Champaign
Cessna, Evelyn Mildred	HSLAS	32	*	†	Oak Park
Cessna, Robert	Agr	87½	*		Danville
Cernik, Werceslaus Bede	SS	8			Wahoo, Nebraska
Chadderdon, Neva Mae	LAS	98	*	†	Adair
Chakravarty, Akhil Chandra	ME	68	*		Bengal, India
Chamberlain, Aaron Vine	Agr		*	†	ElDara
Chambers, Neal Bruce	Agr		*		Pawnee
Chan, Ye Young	LAS	91	*	†	China
Chandler, George LaVerne	LAS	87½	*	†	Hinsdale
Chaney, Zoe Gladys	SS				Champaign
Chapin, Ella Irene	Chem		*	†	Springfield
Chapin, Ralph Marion	Chem		*	†	Springfield
Chapman, Blanche Marguerite	HSLAS		*	†	Dixon
Chapman, Donald Vanderburg	Agr	113	*	†	Evanston
Chapman, Edith Mae	LAS	90	*	†	Bisbee, Oregon
Chapman, Harry Henderson	ME	74	*	†	Hinsdale
Chapman, Will Ray	SS	6½			St. Paul, Minnesota
Charles, Andrew Hoyle	CerE	85	*	†	Chicago
Charleston, Verne DeVere	LAS	105	*	†	Peoria
Charlet, Louis Walter	ME	35	*	†	Kewanee
Charpier, Leonard Louis	MdP	74	*		Chicago
Chase, Carroll Gayton	LAS		*	†	River Forest
Chase, Fay Harold	EE	41½	*	†	River Forest
Chase, Joseph Harold	Agr	67		†	Toulon
Checkley, Martha Trogdon	LAS			†	Mattoon
Cheever, Hulburt Craig	Arch	54	*	†	Waterloo, Iowa
Chen, Jung-ting	Agr (SS)	118½	*		Washington, D. C.
Chen, Shao Shun	Agr	93	*	†	Washington, D. C.
Cherf, John Frank	SS	6½			Antigo, Wisconsin
Chesley, Anne Dietsen	SS	32			Urbana
Chester, Jamie Margaret	HSLAS	64	*	†	Champaign
Chiang, Yu-Ying	LAS	15	*	†	China
Chiesa, Mark Victor	Com		*	†	Des Moines, Iowa
Childs, Edmond Lyman	Com		*	†	Rockford
Childs, James Bennett	LAS (SS)	104	*	†	Shobonier
Chioco, Juan Ortiz	Agr (SS)	130½	*		Philippines
Chittum, Stella Mae	SS	16			Sorento
Chmelik, Frank Jr.	Agr	44	*		Chicago
Chou, Ching-fu	Agr		*	†	Seattle, Washington
Christ, Robert Johnson	CE	36	*	†	Chicago
Christen, Lester Howard	AE	106	*	†	Elgin
Christian, Elmer Charles	Agr		*	†	Chicago
Christian, William Earl	EE	13½	*		Trenton, New Jersey
Christopher, Arthur Bailey	CerE	123		†	Canton
Christopher, Muriel Melinda	LAS		*	†	Urbana
Christy, Grace Jean	HSLAS (SS)	93	*	†	Urbana
Christy, Mae	LAS		*	†	Urbana
Chritton, Ernest Fairfax	ME	31	*	†	Oak Park
Chu, Chin Chou	ME			†	China
Church, Daniel	ChE		*	†	Marissa
Church, Helen Virginia	HSLAS		*	†	Catlin
Churchill, Woodford McDowell	Agr	60	*	†	Fairbury
Cierpik, Casimir Stanley	ME	110		†	Chicago
Cilley, Lillie, B.L.S., 1917	LAS		*		Independence, Iowa
Clarahan, Charles Henry	RCE	113	*	†	Oak Park
Clarahan, Lewis Arthur	Com	17	*	†	Oak Park
Clark, Albert LeRoy	Agr	104	*		Chicago
Clark, Bruce Byrne	Agr	89¾	*		Peoria
Clark, Erskin Phelps	LAS	5	*	†	LaGrange
Clark, Frank Roundy	ChE (SS)	75	*	†	Wheaton
Clark, Glenn Albert	Com		*		Villa Grove
Clark, Harold Dean	Com	41	*	†	Hinckley
Clark, Harry Cecil	Agr	48	*		Champaign
Clark, James Glen	Com	100	*	†	Moweaqua
Clark, James William	CE			†	Chicago
Clark, Kenneth Walker	Agr	34	*	†	Lindenwood
Clark, Kenneth Woodyard	Com		*	†	Washington, D. C.
Clark, Lloyd Talbert	Agr	32	*		Kinderhook
Clark, Margaret	Agr	90	*		Peoria
Clark, Mary Chase	MdP	52	*		Peoria
Clark, Welford Dickson	LAS	29	*		Chicago
Clarke, Helen Beulah, A.B., B.M., 1915-17	SS	189½			Champaign
Clarke, Susie	SS				Sheldon
Clarke, Walter James	Agr		*		Chicago
Clausen, Donald Neath	CE		*	†	Chicago
Cleaver, Carl Donald	AE		*		Anderson, Indiana
Cleaver, John D	Agr	47	*		Perry, Missouri
Clegg, Carl	ME	110	*	†	Chandlerville
Cleland, Kathleen Margaret	SS				Petroleum, West Virginia
Clem, Orlie Martin	LAS	100	*		Benton
Cleveland, Chester Wilson	LAS	21½	*	†	Plymouth, Indiana
Clevett, Merton Lloyd	SS				Kewanee
Cleworth, Clarence William	REE	73	*		Hartford, Michigan
Clickener, Sarah Holcombe	SS	12			Morrisonville
Clifford, Woodbridge Kenneth	Agr	71	*	†	Orion

Clifton, Arthur Samuel	Agr		*		Watseka
Cline, Marguerite Arabelle	HSLAS (SS)	61	*	†	Fayetteville, Arkansas
Clinkenbeard, Adeline Alice	LAS		*	†	Champaign
Clorfine, Irwin Bernard	LAS	70	*	†	Chicago
Close, Arthur Buckley	Agr (SS)	93	*	†	Chicago
Clover, Everett LeRoy	Agr	34	*	†	Gardner
Clyne, John Mitchell	CE		*	†	Maple Park
Clyne, Marvel	HSLAS		*	†	Alton
Coan, Ivan Walker	Agr	29	*	†	Houston, Texas
Cobb, John Louis	SS	7½			New Burnside
Cobb, Thomas Howell	LAS		*		New Burnside
Cobb, William Henry	Com	69	*	†	Tipton, Iowa
Cochran, Florence Alwida	LAS	33	*	†	Champaign
Cochran, Gilbert Emlyn	Com	6½	*	†	Champaign
Cochran, Ray S	SS				Elwood, Indiana
Cochrane, Helen Marie	LAS		*	†	Danville
Coe, Viola Margaret	LAS	100	*	†	Ridgefarm
Coffman, Ruth Eugene	HSLAS	60	*	†	Pana
Coggan, Kenneth Mills	LAS	30	*		Clay City
Cohen, Esther Dorris	LAS	101	*	†	Bridgeport
Cohen, Isadore Perry	CerE	55½	*		Chicago
Cohen, William	Arch		*	†	Chicago
Cohn, Benjamin Emanuel	ChE	109	*	†	Chicago
Cohon, Beryl	LAS			†	Chicago
Cohoon, Thelma	LAS		*		Thorntown, Indiana
Coldren, Fanny Alice	LAS	40½	*	†	Topeka, Indiana
Cole, Elwood Bourland	ME	74	*	†	Peoria
Cole, Jirah Delano	Agr		*	†	Glencoe
Cole, Madaline Maud	SS				California, Missouri
Coleman, William Bryan	Com		*	†	Rochelle
Coley, Reginald Hobart	ChE		*		East St. Louis
Colegrove, Vivian Geraldine, A.B., 1908	Lib	50	*		S. E. Minneapolis, Minnesota
Collier, Edith Blanche	LAS	16		†	Bethany
Collier, Jennie Ethel	HSLAS	21		†	Bethany
Collings, David Burton	EE		*	†	Urbana
Collins, Fred Adair	Agr	51	*	†	Evanston
Collins, Ina May	LAS	56	*	†	Hillsboro
Collins, Julien Hampton	Com	64	*	†	Chicago
Collins, Mae Myers	LAS			†	Washington
Collins, Walter Samuel	Agr		*	†	Rockford
Collins, Will Howard	Lib		*	†	Bowers, Colorado
Colman, Ruth Williams	SS				Park Ridge
Colmey, Duane Campbell	LAS (SS)	115½	*		Chicago
Colonius, Fred Philip	SS				Nokomis
Colp, Ryburn Robert	LAS	28	*		Carterville
Colson, Etta M	SS	7			Urbana
Colstock, Harry Edward	Agr	20	*		Bradley
Colvin, Esther Marie	LAS sp			†	Nebo
Colwell, Lyle Miller	EE	27	*	†	Ottawa
Colwell, William Tracy	CE	35	*	†	Ottawa
Conant, Lewis Jasper	LAS	96½	*	†	Denver, Colorado
Conde, Leonore Adele	LAS		*	†	Hammond, Indiana
Condert, Mrs. Clarissa Perkins	SS				Guthrie
Condon, Edith Frances	HSLAS	62	*	†	Sheffield
Condon, Frank Watrous	EE		*	†	E. Las Vegas, New Mexico
Condron, George Tolman	EE		*		Oak Park
Conger, Almon Mortimor	SS	111½			Elgin
Congleton, Frank Harold	Agr	99	*	†	Urbana
Conley, Mae	HSLAS	30	*	†	Sheldon
Conn, Agnes Ruth	HSLAS	78	*		Slope Center, North Dakota
Connett, Wesley Leonard	Arch	36	*	†	St. Joseph, Missouri
Connor, Lois Mildred	LAS		*	†	Champaign
Cook, Dorothy Elizabeth	Lib	42	*	†	Denver, Colorado
Cook, Mrs. Harriet Barnett	SS				Des Plaines
Cook, Herman Louis	ChE		*	†	Terre Haute, Indiana
Cook, Howard Haydon	Com	29	*	†	Shelbyville
Cook, Seymour Houghton	LAS (SS)	54	*	†	New York City, New York
Cooke, Russell Stewart	CE	73	*	†	Chicago
Cooley, Floyd Seyller	EE	37	*	†	McHenry
Coolidge, Edward Levant	LAS		*		Princeville
Coolidge, William Frances	Agr	100	*	†	Bloomington
Cooling, Kenneth George	AE	91	*		Rockford
Coolley, Anna	LAS		*	†	Broadlands
Cooney, Lucile Elizabeth	Mus		*	†	Pekin
Cooper, Edwin Jonas	LAS	66	*		Cable, Wisconsin
Cooper, Flossie Fae	HSAgr (SS)	72	*	†	Decatur
Cooper, Henry Noble Jr	LAS	109	*		Chicago
Cooper, Mary	LAS		*	†	Hillsboro
Cope, Harold Fleming	LAS	33	*	†	Champaign
Copes, Ira Otho Jr	Agr	26	*	†	Green Valley
Copley, Mary	LAS		*	†	Joliet
Corbett, Esther	HSAgr	31	*	†	Edwardsville
Corbin, Ashford Frank	AE	36	*	†	Aurora
Corcoran, Katherine Mary	SS	99			Galena
Cord, Joy Sylvia	HSLAS	15	*	†	Sidney
Cordell, Della Grace	Mus (SS)	125½	*	†	Macomb

Corley, Warren	*Com*		*		*Decatur*
Cormack, Joseph Clarence	*Com*	*69*	*	†	*Chicago*
Cornbrooks, Mary Gertrude	*LAS*		*	†	*Moline*
Cornelious, Maurice Leon	*CE*		*	†	*Kewanee*
Cornelisen, Paul Drew	*EE*		*	†	*Pittsburg, Kansas*
Cornelisen, Ralph White	*RCE*	*74*	*	†	*Pittsburg, Kansas*
Cornwell, Earl Dennis Pleasant	*LAS*		*	†	*Newton*
Corper, Philip	*Com*	*111*	*		*Chicago*
Corson, Harold Fee	*MdP*		*	†	*Springfield*
Cory, William Robert, Jr.	*SS*	*5*			*Springfield*
Corzine, Dale Clair	*Agr*	*120*	*		*Assumption*
Cossairt, Laura Grace	*SS*				*Potomac*
Cothern, Lola Oneita	*SS*	*8*			*Pana*
Cotta, Maurice LaRoy	*MSE*	*36*	*	†	*Rockford*
Cottingham, Lloyd	*Agr*	*15*	*		*Abingdon*
Cotten, Alonzo Atchison	*Com*			†	*Vermillion, South Dakota*
Cottrell, Pearl Winifred	*LAS*	*13*	*	†	*Des Moines, Iowa*
Couchman, Alice Irene	*SS*				*Sumner*
Coughanour, Richard David	*EE*	*36*	*	†	*Dallas, Texas*
Courtney, Helen Irene	*LAS*	*56*	*		*Urbana*
Cousins, Wanda Maurine	*LAS*	*35*	*	†	*LaFayette, Indiana*
Cover, Hazel Winifred	*HSLAS (SS)*	*31½*	*		*Paw Paw*
Cover, Olive	*LAS*	*55½*	*	†	*Tunnel Hill*
Cover, Sylvia	*LAS*	*55*	*	†	*Tunnel Hill*
Cowan, Esther Lydia	*LAS*		*	†	*Danville*
Cowen, David	*ChE*		*	†	*Chicago*
Cowles, Rollin James	*Com*	*60*	*		*Burlington, Iowa*
Cox, Frederick G	*SS*				*Iowa City, Iowa*
Cox, Gerald Judy	*ChE*	*71*	*	†	*Bridgeport*
Cox, Leonard Kyle	*Com*	*16*	*		*Batesville, Mississippi*
Cox, Theodore Fletcher	*Agr*	*54*	*	†	*Winnetka*
Crabtree, John Bradley	*Com*	*54*	*	†	*St. Paul, Minnesota*
Crackel, Thelma Ruth	*LAS*	*33*	*	†	*Champaign*
Craig, Hazel Iona, A.B., B. Mus., 1910–13	*Agr*			†	*Champaign*
Craig, Helen Elizabeth	*LAS*	*68*	*		*Hindsboro*
Craig, John Andrews	*EE*	*63*	*	†	*Hindsboro*
Craig, Palmer George	*AE*		*	†	*Danville*
Craigmile, Mary Delight	*LAS*	*122*	*		*Knox, Indiana*
Craigmile, Robert James	*EE*	*114*	*	†	*Knox, Indiana*
Crain, Hersey Nicholas	*ME*	*97*	*		*Waverly*
Crammond, Ralph Gibson	*Agr*		*	†	*Peoria*
Crandell, Earl Melville	*Agr*	*35*	*	†	*Oak Park*
Crapo, Aileen Marie	*LAS*		*	†	*Kankakee*
Crate, Ethel Frances	*LAS*	*68*	*	†	*Bellflower*
Crathorne, Katherine Layton, Ph.D., 1908	*Mus*			†	*Champaign*
Cratty, Walter Bryant	*Com*		*	†	*Rochelle*
Cravens, Fred W	*Agr*	*62*	*	†	*Bloomfield, Indiana*
Craver, Alva Wilfred	*Agr*		*	†	*Harvey*
Crawford, Helen Lucile, A.B., 1915	*SS*	*135*			*Urbana*
Crawshaw, Earl Harwood	*EE*		*	†	*Chicago*
Crebs, John Montgomery, Jr.	*Com*	*34*	*	†	*Carmi*
Creedan, Joseph Francis	*AE*	*34*	*	†	*Omaha, Nebraska*
Creighton, David Edward	*Agr*	*79*			*Phoenix, Arizona*
Cremeans, Lola Merle	*HSLAS*	*33*	*	†	*Urbana*
Cress, Eldred Everett	*AE*	*109*	*	†	*Carlinville*
Crew, Maurice Croushome	*ChE*		*	†	*Aurora*
Crews, Orville Jennings	*Com*	*29*	*	†	*Sioux City, Iowa*
Crickman, Chlorus William	*EE*		*	†	*Clay City*
Criley, Harlan Russell	*LAS*	*96*	*	†	*Champaign*
Crill, William Franklin	*Agr*		*	†	*Monroe Center*
Crim, Charles Harold	*CE*	*84*	*	†	*Estherville, Iowa*
Cromer, George William	*ChE*		*	†	*West Chicago*
Cronin, Marie Louise	*LAS*	*68*	*	†	*Chicago*
Crosear, Arthur Ogan	*Agr*	*110*	*		*Utica*
Cross, Hugh Ware	*Law*	*65*	*	†	*Jerseyville*
Cross, Mary Ann	*LAS*	*99*	*	†	*Roachdale, Indiana*
Crowell, Orpha Faye	*SS*	*16*			*Waverly*
Crowell, Truman MacKenzie	*Com*	*15*	*		*Paw Paw*
Crusinberry, Barnard Herschel	*EE*	*96*	*	†	*Des Moines, Iowa*
Critcher, Walter Louis	*EE*	*132½*	*	†	*Springfield, Missouri*
Cryder, Ray Eugene	*Agr*	*30*	*	†	*Morris*
Cuerden, Catherine Fay	*Mus*	*4*	*	†	*Hamilton*
Culbertson, Raymond J	*Com*	*34*	*		*Stryker*
Cullen, Sister Miriam Ruth	*SS*	*8*			*Nauvoo*
Cullin, Victor	*Com*	*33*	*	†	*Taylorville*
Cullinane, George Madill	*EE*	*135*	*	†	*St. Louis, Missouri*
Culter, Ralph Emerson	*Com*	*34*	*	†	*Gibson City*
Cummings, Hazel	*LAS*		*	†	*Shreveport, Louisiana*
Cunha, Leopoldo	*CE*		*	†	*Brazil*
de Cunha, Monteiro Humberto	*CE (SS)*	*29*	*	†	*Brazil*
Cunnea, Joseph Patrick	*CE*	*35*	*	†	*Chicago*
Cunningham, Irene Mary	*LAS*	*60*	*	†	*Rossville*
Curless, Helen McNeill	*LAS*		*	†	*Cottonwood, Idaho*
Currie, Althea Elizabeth	*LAS (SS)*	*85*	*	†	*Loda*
Currier, Edward Allen	*SS*				*Florence, Massachusetts*
Curtis, Charles Carey	*Law*	*30*	*	†	*Sharpsburg, Ohio*

Curtis, Elisa	LAS		* †	Santiago, Chile
Curtis, Hazel	LAS	20	* †	Kewanee
Curtis, Jane Tuttle	HSLAS	32	*	Decatur
Curtis, Miriam Austin	HSLAS	72	* †	St. Louis, Missouri
Cushman, Josephine Amanda	Lib		* †	Akron, Ohio
Cushman, Robert Eugene	Law		* †	Akron, Ohio
Cuskaden, Major	Agr	126	*	Arcola
Cuskaden, Myron E.	Agr.		†	Arcola
Custer, John Howard	Com	32	* †	Chicago
Cuthbert, Dorothy Lucile	Lib	6	* †	Gilsum, New Hampshire
Cutler, Lloyd Elwell	Agr	69	* †	Rosemond
Daggett, Edward James	LAS	34	* †	Joliet
Dahlberg, Truman Lawrence	ChE	56	*	Chicago
Dahlin, Edna Otillia	HSAgr	98	* †	Geneva
Dailey, Arthur Aloysius	LAS	74	*	New York City, New York
Dalrymple, Robert Hew	LAS		†	Terre Haute
Daly, Geraldine	LAS	102	* †	Joliet
Daly, Helen	SS	121		Monmouth
Daly, Lewis	Mus	35	* †	Monmouth
Daniel, Ruth	Mus	68	* †	Kewanna, Indiana
Daniels, Stewart Dewy	Com		* †	Jerseyville
Darham, Mary Rose	LAS (SS)		* †	Carthage
Darley, Samuel Dawson	Agr		* †	Jacksonville
Darnall, Warren Verne	Com	30½	*	Oak Park
Dart, Helen Alwida	Mus	33	* †	Princeville
Daugherty, Clayton Forrest	LAS		*	Champaign
Davenport, Margaret	HSAgr		* †	Champaign
Davidson, Bernard Eugene	CE	35	* †	Keokuk, Iowa
Davidson, Fred Alexander	Agr		* †	St. Louis, Missouri
Davies, William Gilbert	Com	29	* †	Springfield
Davis, Bernice Mary	LAS		* †	Urbana
Davis, Beryl	Com		* †	Tampico
Davis, Charles Brewer	LAS	69	* †	Champaign
Davis, Charles Jesse	ME	35	* †	Chicago
Davis, Dwight Farrier	Agr		* †	Urbana
Davis, Edith Isabel	HSLAS	61	* †	Kankakee
Davis, Elizabeth	HSLAS	27	* †	Rantoul
Davis, Frederick Abram	Agr	106	* †	Rockford
Davis, Grace Ethel	HSLAS		* †	Watseka
Davis, Helen Groos	LAS	108	* †	Los Angeles, California
Davis, Herbert Spencer	LAS	26½	* †	Louisville
Davis, John Eugene	Com	98½	* †	Chicago
Davis, Kenneth Isaac	Com	72	* †	Tampico
Davis, Loxa Edna	LAS	47	* †	Charleston
Davis, Lyman Kent	LAS	76	* †	Donnellson
Davis, Mildred Winifred	HSAgr	15	* †	Chicago
Davis, Nelson Louis	AE	76	*	Chicago
Davis, Robert Holcomb	Chem		* †	Philadelphia, Pennsylvania
Davis, Ward Owen	Agr	101½		Ramsey, Indiana
Davison, Homer Reese	Agr		* †	Springfield
Dawley, Earle Reed	CE	73	* †	Passaic, New Jersey
Dawley, Robert Worthington	ChE	64	* †	Passaic, New Jersey
Dawson, Dewey Mitchell	Com (SS)	6½	* †	Scottland
Dawson, Estelle	Mus		*	Normal
Dawson, Floyd Wildon	Agr		†	Milford
Dawson, Nellie Grooms	SS	4		Chatham
Dawson, Robert Harvey	EE (SS)	39	*	Monticello
Dawson, Roger Mills	CE	26½	*	Decatur
Day, Wilbur Franklin	Chem		* †	Peoria
Dayton, Wayland Wilbur	Agr	66	* †	West Chicago
Deahl, Neulon	Chem	104	* †	Champaign
Dean, Olive Gertrude	LAS	109	* †	Harrisburg
Dean, Paul Victor	Agr	32	* †	Houston
Dean, Vaughn Waldow	Com	100	*	Decatur
Deane, Dorothy Stephenson	HSAgr		* †	Monango, North Dakota
Debel, Lydia Jensen	LAS		*	Blair, Nebraska
Decker, Ralph Talbot	ChE	24	* †	Augusta
Deckman, Herbert Menzel	Com		* †	Winona, Minnesota
Deeds, Russell Bird	ME		*	Cape Girardeau, Missouri
Deeming, William Seaber	Com		* †	Sterling
Deering, Earl William	CE	107	* †	Chicago
DeGroot, Horace Edwin	ME (SS)	59	*	Washington, D. C.
DeGroot, Walter Charles	Agr	49	* †	Washington, D. C.
DeGroot, William Benton	Agr		* †	Washington, D. C.
DeHart, Myra Lois	HSLAS	64	* †	Davenport, Iowa
Dehner, Walter Leonard	Agr	63	* †	Whitehouse, Ohio
Delabar, Clifford Ernest	Agr sp	28½	†	Oquawka
Dell, Dorothy	HSLAS	32	* †	St. Louis, Missouri
DeLong, Clarence Henry	Com	28	* †	Fithian
DeLong, Edna Theresa	LAS		*	Sadorus
DeLong, Vernon Meade	Agr	32	*	Barss Corner, Nova Scotia
Denison, Maggie Myrtle	LAS		* †	Conway, Arkansas
Dennis, Rose Carolyn	LAS	112	*	Glencoe
Denson, Charles Hackett	Agr	41	* †	Urbana
Denson, Mrs. Charles H	Mus	8	*	Urbana
Depler, John Clarence	Com		* †	Lewistown

Dern, Karl Ludwig	LAS	116	* †	Stanton, Nebraska
Desai, Ganpat Balwant	Agr		*	India
Deuchler, Gustave Herman	AE	104	* †	Aurora
Devere, Martha Catherine	HSLAS	66	*	Kankakee
Devol, Everett Rolland	EE	72	* †	Miami, Florida
Dewing, George H	SS	4		Aurora
Diaz, Mrs. Margaret Leontine	SS	7		Alton
Diaz, Washington Teodoro	Agr (SS)	22	* †	Urbana
Dice, William Rush	MdP		* †	Charleston
Dick, Frank Josef	LAS	35	* †	Quincy
Dickler, Edward Carl	Ch E		†	Dwight
Dickson, Lawrence Evans	LAS	70	* †	Chicago
Diehl, Harold Allan	Com		* †	Chicago
Diesel, Wilfred August	ME	25	* †	Chicago
Dieserud, Helge Christopher	ME	109	* †	Washington, D. C.
Dieterich, Ruth Runkle	LAS		* †	Beardstown
Dietrich, Carl Bernhardt	EE		†	St. Louis, Missouri
Dietz, John Wamser	Com	99	* †	Belleville
Dietz, Marie Alena	LAS		* †	New London, Iowa
Dietz, Myrtle Elinor	LAS		* †	New London, Iowa
Diggin, Sister Mary Fidelis	SS			Clinton
Dildine, William Edwin	Com	35	* †	Freeport
Dilling, Lela Lucile	Mus	30	* †	Urbana
Dillinger, Carl John	CE	86	* †	Portland, Oregon
Dillman, Arthur Paul	MdP		* †	East St. Louis
Dixon, Edgar Ogle	ChE	32	* †	Chicago
Dixon, Mary Louise	LAS	29	* †	Chicago
Dixon, Thomas Carl	Com	31	* †	Vincennes, Indiana
Dobyns, Marie Jewell	LAS		* †	Bondville
Dodge, Astrid Moth	LAS (SS)	68	* †	Champaign
Dodge, Josephine	SS	135		Champaign
Dodge, Stanley Solon	Chem	27	* †	Chicago
Dodge, Mrs. Stella Evelyn	Mus (SS)		* †	Champaign
Doeden, Nellie Render	LAS (SS)	12½	* †	Hubbel, Nebraska
Doepel, Robert Francis	SS			Mattoon
Doerr, Clarence Leo	Agr	56½	*	Chicago
Doerscher, Willis Harry	Com	90	*	Chicago
Doisy, Roberta Josephine	LAS (SS)	5	* †	Champaign
Dolby, Vernon A	AE		* †	Elgin
Dole, Laura Emily	Mus	133	* †	Champaign
Dole, Sarah Willey	Agr	26	*	Mattoon
Dolph, Arthur H	Agr	56½	*	Fisher
Donahue, Ada Elizabeth	LAS		* †	Quincy
Donaldson, Elizabeth Frances, A.B., 1914	SS	139½		Urbana
Donaldson, Robert Jennings	EE		* †	Grayville
Donaly, Marie Rudy	MdP	50	*	Carterville
Dong, Tseh	LAS	44	* †	China
Donohue, James Arthur	CE		* †	Waukegan
Donovan, Mary Margaret	Com	80	* †	Champaign
Doocy, Helen Laura	LAS	94	* †	Pittsfield
Doolen, Glen Wesley	SS	108		Bondville
Dooley, Helen Elizabeth	LAS	35	* †	Little Rock, Arkansas
Doran, Millard Edward	Com		* †	East St. Louis
Doran, Oscar Theodore	SS	7		Cassidy, Missouri
Doretti, Peter Joseph	LAS		†	Chicago
Dorris, Sylvanus Alpheus	SS	35½		Isabel
Dorsett, Eleanor Hedgcock	HSLAS	44½	* †	Augusta
Dorsett, Martha Matilda	LAS	68	* †	Augusta
Dorsett, Walter Harper	Agr	30	*	Augusta
Dorullis, Bertha Marie	LAS	30	* †	Centralia
Dory, Victor Paul	Com	66	* †	Warsaw
Doss, Paul Christian	Agr	68	* †	Philo
Doty, Dorothy Lanning	HSLAS	105	* †	Wilmette
Doty, George Lewis	Lib		*	Monroe, Michigan
Doty, Helene Eleanore	LAS	114	* †	Wilmette
Doty, Henry Fairchild	Com	33	* †	Highland Park
Doubet, Henry	ChE		* †	Peoria
Dougherty, Robert Hughes	ChE	93	* †	Peoria
Douglass, Raymond William	LAS		* †	Waukegan
Douglass, Thomas Jay	Agr		* †	Butchtown
Dowd, John Matheny	MdP	30	* †	Fisher
Dowell, Carl Philip	EE	104½	* †	Port Richmond, New York
Downend, Florence Eleanor	Mus	72	* †	Toulon
Downing, Emily Mott	LAS (SS)	88	* †	Elburn
Downing, Kenneth Wentworth	Agr		*	Des Plaines
Downs, Myron Day	Agr	76	* †	River Forest
Doyle, Edgar Lee	CE		*	Raymond
Doyle, Irene May	LAS	67	* †	Clinton
Drake, Carlton St. Clair	ChE		* †	Springfield
Drake, Robert Joseph	EE		* †	Chicago
Dralle, Ruth Clara	LAS (SS)	15½	* †	Champaign
Dreer, Herman Samuel	SS	8½		Washington, D. C.
Dreyfus, Milton	Law	32	*	Fisher
Dreyfus, Morris Edward	ChE	33	* †	Kansas City, Missouri
Dreyfus, Stanley	Com	33	* †	Fisher
Drucker, Albert	ChE	33	*	Chicago

Drummet, Arthur William	Agr	65	* †	Long Point
Dry, Hazel Morine	LAS	26	* †	Hutsonville
Drye, Miles Albert	Agr		†	Chicago
Dryer, Elizabeth Ann	LAS		* †	Elkhart, Indiana
Drysdale, Robert Alexander	LAS	33	* †	Chicago
DuBois, Addie Majella	LAS	69	* †	Eldorado
DuBois, Marie Mildred	HSLAS (SS)	103	* †	Eldorado
DuBois, Martha Harriet	HSLAS (SS)	81½	* †	Eldorado
Dueringer, Walter Edward	ME	36	* †	Elgin
DuFrain, Viola Maude	LAS		* †	Momence
Duke, Clarence Ormond	ME	37	* †	Henry
Dukes, Ruby Gertrude	Mus	34	* †	St. Joseph
Dumas, Velma Burdette	Mus	94	* †	Cicero
Dumke, Mildred	SS			Elmhurst
Dunbar, Charles William	CE		*	Evanston
Dunbar, Glenn	Agr	34	* †	Taylorville
Dunbar, James Lonaboise	SS			St. James
Dungan, Mrs. Elsie Lois	SS			Richwood, Ohio
Dungan, John Homer	ME		* †	Brimfield
Dungan, John Urban	Com (SS)	51½	* †	Richwood, Ohio
Dunlap, Effie Charlotte, A.B., 1916	SS	153		Urbana
Dunlap, Harry Mac	Com		* †	LaGrange
Dunn, Bankler Louis	EE	36	* †	Hillsboro
Dunn, Dorothy	LAS	63	* †	Waukegan
Dunn, Georgiena Evelyn	HSLAS	103½	*	Highland Park
Dunn, Homer Alban	Com	63	* †	Columbus, Indiana
Dunscomb, George Baker	LAS		* †	Windsor
Dunseth, Clara Forbes	LAS		* †	Urbana
Dunseth, Ruth Irene	HSLAS	27	* †	Waverly
Duntley, Ruth Marian	LAS		* †	Bushnell
DuPlan, Henry Brackman	Agr	29	*	Chicago
Durant, Joseph Olsen	CE		* †	Chicago
Durham, Harold Winfred	Com	20	*	Genoa
Durham, Morris David	LAS		* †	Bement
Dustin, Charles Sanderson	Agr	63	* †	Urbana
Duvall, Fae	HSAgr (SS)	90	* †	Argenta
Dux, Herbert Elmer	CE	32	†	Indianapolis, Indiana
Dvorak, Joseph Jr.	Arch	107	†	Chicago
Dyer, Edyth May	LAS		†	White Hall
Dyer, Ethel Golden	SS	31½		White Hall
Dyer, Harold Ruskin	Arch	85	* †	Bloomington
Dynes, George Crosby	Agr		* †	Annawan
Dyson, Edwin Arthur	LAS		* †	Rushville
Dyson, Everett Mahlon	LAS		†	Urbana
Eagle, Marvin Edward	SS	7		Burke's Garden, Virginia
Earhart, Marianne Eloise	LAS	35	* †	Wyoming
Eaton, Ralph Melvin	LAS		* †	Mt. Carroll
Eaton, Rea Lincoln	Agr	95	*	Eaton, Colorado
Eaton, Ruth	LAS (SS)	7	* †	Quincy
Eaton, William John	SS	8		Palmyra
Ebbler, Edward	SS	8		Godfrey
Eberspacher, George Henry	Com		* †	Pana
Eckart, Harold Crocker	CE		* †	Bloomington
Edds, Vera Oriene	LAS	122	* †	Normal
Edelman, Benjamin Harry	CE	57	* †	Chicago
Edgerley, Kenneth Hopkins	Agr	50	*	Granville
Edie, Burl Albert	Law	61	* †	Monticello
Edmundson, Nila Winifred	HSAgr (SS)	85⅔	* †	Balbec, Indiana
Edwards, Gail Phillips	Chem	103	* †	Chicago
Edwards, Howard Milton	LAS		†	Lee
Edwards, James Beresford, Jr	Com	33	* †	Chicago
Edwards, Lester Crews	Agr		* †	Ashland
Edwards, Liston Myron	LAS (SS)	29	*	Chicago
Edwards, Robert Yarrington	Law		*	Champaign
Edwards, Terry Warren	ME	35	* †	Jerseyville
Egan, Lillian Elizabeth	HSAgr	88	* †	Quincy
Egbert, Jean Arisa	Agr		* †	Sycamore
Ehlers, Earl Edward	AE	40	* †	Mason City, Iowa
Eichhorn, William Huschel	Agr	104	* †	Mound City
Eickelberg, Edna Helen	LAS sp		†	Chicago
Eier, Charles	AE		* †	Geneva
Eikenberry, Amos R	SS	7½		LaPlace
Einbecker, William Francis	Chem	71	* †	Chicago
Eisner, Katherine	Mus	30	*	Champaign
Eiszner, Theodore Frank	Com		*	Chicago
Ekblaw, George Elbert	LAS		*	Rantoul
Elder, Helen Irene	SS	8		Alton
Elder, James William	Com		†	Indianapolis, Indiana
Eldridge, Bertram Neil	Com		* †	Lacon
Eldridge, Earle Whitney	Agr	61	*	Greenview
Eldridge, Leah Estene	HSLAS	32	* †	Wilmette
Eleson, Eugene Robert	MdP	101	* †	Elkhart, Indiana
Elg, Erich George	EE	57	* †	Green Bay, Wisconsin
Ell, Ferdinand Arthur	EE	107	* †	Chicago
Ellenberger, Guy Ward	CE	37	* †	Normal
Ellingson, Anita Marie	LAS		*	Wautoma, Wisconsin

Ellington, Alvin Matthews	*Law*	*65*	*	†	*Buffalo*
Elliott, Earlie Edgar	*Agr* (SS)	*95*	*	†	*Bono, Arkansas*
Elliott, Howard Joseph	*ME*		*	†	*Chicago*
Ellis, Charles Lyman, A.B., 1910	*AE*		*	†	*Sedgwick, Kansas*
Ellis, Orville Weaver	*CE*		*		*Altoona, Iowa*
Ellman, Samuel	*EE*			†	*Chicago*
Elman, Myer Aaron	*LAS*		*	†	*Chicago*
Elwell, Dorothy	*LAS*		*		*Champaign*
Emch, Walter	*CE*	*108½*	*	†	*Urbana*
Emery, Robert Simpson	*Com*	*33*	*	†	*Chicago*
Eminger, Mabel	*LAS*	*98½*	*	†	*Gibson City*
Emrich, Dwight Martin	*CE*	*36*	*		*Winslow*
Ems, Clarence	*Agr*	*34*	*	†	*St. Joseph*
Engelhard, Willard Paul	*Com*	*31*	*	†	*Hollywood*
Englehardt, Lora May	*HSLAS* (SS)	*65*	*	†	*Harvard*
Engelland, Edmund Franciscus	*EE*	*72*	*	†	*Grant Park*
Engelland, Mynetta Mary Margaret	*HSLAS*	*32*	*	†	*Grant Park*
England, Glenn Lewis	*EE*	*69*	*	†	*Havana*
Eninger, Helen Marie, A.B., 1917	*SS*	*166*			*Assumption*
Entorf, Rachel	*LAS* (SS)	*8*	*	†	*Amboy*
Eppinger, Esther Augusta	*Com*	*68*	*	†	*Quincy*
Eppstein, Edwin M	*Com*		*	†	*Farmer City*
Epstein, Ezekiel Sig	*Com*		*	†	*Danville*
Erdmann, Roy Alfred	*Com*	*83*	*	†	*Geneseo*
Erickson, Adrian Edson	*Com*	*65*	*	†	*Arthur, Iowa*
Erickson, Willard Carl	*ChE*	*13*	*		*Bradley*
Ericsson, Dewey Arthur	*AE*		*	†	*Chicago*
Erikson, Edison Clyde	*Agr*	*26½*	*		*Princeville*
Ernest, Edward Frank	*Agr*		*	†	*Sycamore*
Ernest, Helen Orpha	*Mus* (SS)	*83*	*	†	*Urbana*
Ernest, Nellie Edith	*LAS*		*	†	*Urbana*
Ernest, Ruth, A.B., 1915	*SS*	*134*			*Urbana*
Esslinger, Esther Lillian	*LAS*	*29*	*	†	*Rushville*
Euston, Jacob Howard	*EE*	*106*	*	†	*Newark, New Jersey*
Evans, Bessie Louise	*SS*	*5½*			*Champaign*
Evans, Fred	*AE*	*107*	*	†	*Chicago*
Evans, Kenneth Alwyn	*Agr*		*	†	*Emerson, Iowa*
Evans, Lois Kathryn	*LAS*	*64*	*	†	*Monticello*
Evans, Madge Bessie	*SS*				*David City, Nebraska*
Evans, Maurice Willard	*Com*	*71*	*		*Mattoon*
Evans, Robert Barclay	*Com*	*31*	*	†	*Aurora*
Evans, Ruth	*Mus* (SS)	*70*	*	†	*Champaign*
Evans, Vera Kate	*SS*	*34*			*Champaign*
Evans, Walter Chew	*ME*		*	†	*Chicago*
Evans, William Harold	*LAS*	*36*	*		*South Bend, Indiana*
Everett, Philip Harper	*MdP*		*	†	*Chicago*
Everhart, Gladys	*HSLAS*	*66*	*	†	*Champaign*
Ewan, Caroline Virginia	*LAS* (SS)	*89½*	*	†	*Cuba*
Ewan, Ruth Elizabeth	*HSLAS*	*46*	*	†	*Cuba*
Ewing, Herbert Nathaniel	*Com*		*	†	*McLean*
Eycleshymer, Dorothy Adele	*Com*		*	†	*Niles, Michigan*
Eyrich, Winniferd Marie	*LAS*	*34*	*	†	*Milford*
Fabrick, Ward Austin	*Agr*		*		*Harlem*
Fager, George Edward Kirchner	*Agr*	*102*	*	†	*Murphysboro*
Fahrnkopf, Charles Frank	*SS*	*18½*			*Decatur*
Fair, Sue Mabel, A.B., 1909	*SS*	*4*			*Chrisman*
Fairbairn, William Bryan	*CE*	*71*	*		*Joliet*
Fairbanks, Laurance Bowie	*Com*	*35*	*	†	*Varna*
Fairchild, John Edward	*MdP*		*	†	*West Chicago*
Faircloth, Samuel Edwards	*ME*	*73*	*	†	*Aurora*
Fairfield, Agnes Evelyn	*HSAgr*	*63*	*		*Chicago*
Fairfield, Edith Louise	*Com*		*	†	*Chicago*
Fairfield, Faith Jeannette	*LAS*	*100*	*	†	*Rutland, Vermont*
Fairlie, Margaret Carrick	*SS*	*9½*			*Jacksonville, Florida*
Fairman, Charles	*LAS*	*100*	*	†	*Alton*
Fallon, Vallie Edna	*LAS*	*67*	*	†	*Urbana*
Fargo, Mrs. Grace S.	*Mus*	*37*	*	†	*Indianola*
Farmer, Ruth Marie	*Mus*	*47*	*		*Bolivar, Missouri*
Farnam, Bertha Lucille	*LAS*	*98½*	*	†	*Pawnee*
Farr, Noel Clifton	*ChE*	*39*	*		*North East, Pennsylvania*
Farthing, Nelle Minerva	*SS*				*Odin*
Farwell, Frank Tyler	*Com*		*	†	*Chicago*
Fash, Robert Arthur	*Arch*	*16*	*		*Springfield*
Fasig, Otho Samuel	*LAS* (SS)	*56*	*	†	*Martinsville*
Faust, Ruldolph Alfred	*Chem*	*35*	*	†	*Washington, D. C.*
Fautsch, Emile	*Chem*	*35*	*	†	*New York, New York*
Fay, Mrs. Susie G	*SS*				*Annapolis, Indiana*
Feddersen, Esther Carolyn	*LAS*		*	†	*Mt. Olive*
Fee, Lawrence George	*SS*	*27½*			*Champaign*
Fehrenkamp, Winifred, B.L.S., 1912	*Arch*		*		*Milwaukee, Wisconsin*
Fehrman, Edwin	*Agr*		*		*Pekin*
Felbeck, George Theodore	*CE*	*50*	*	†	*Kansas City, Missouri*
Feldhake, Otto John	*Com*	*31*	*	†	*Effingham*
Feldman, Nathan	*ME*	*91*	*	†	*Chicago*
Fera, Harriet Amelia	*LAS*		*	†	*Chicago*
Ferguson, Alice Maude	*HSLAS*	*96*	*	†	*Orion*

Ferguson, Wilbert Homer	*Com*	*66*	*		*Kansas City, Missouri*
Ferrell, Duane	*ChE*		*	†	*Sullivan*
Ferry, Grace Bessie	*HSAgr*		*	†	*Zion City*
Fetty, Homer DeWitte	*EE*		*	†	*Inavale, Nebraska*
Feuer, Bertram	*Chem* (*SS*)	*110½*	*	†	*Chicago*
Field, Basil Gordon Rutan	*Com*	*17*	*		*Fitchburg, Massachusetts*
Field, Corinne	*LAS*	*31*	*	†	*Chicago*
Field, David Edwards	*AE* (*SS*)	*96*	*		*Slater, Missouri*
Fields, David	*LAS*		*	†	*Bloomfield, Indiana*
Finhelson, John	*Com*		*		*Chicago*
Finklestein, Isadore	*EE*		*	†	*Chicago*
Finley, Margaret Alice	*LAS*	*98*	*	†	*Hoopeston*
Finney, Dorothy	*LAS* (*SS*)	*38*	*	†	*Westfield*
Finney, James Thomas	*LAS*	*25*	*	†	*Champaign*
Finnigan, Catherine E	*LAS*	*25*	*		*Champaign*
Finnigan, Martha Mary	*LAS* (*SS*)	*95*	*	†	*Champaign*
Firebaugh, Raymond Sims	*Agr*	*34*	*	†	*Robinson*
Firoved, Glenn William	*Agr*	*122*		†	*Monmouth*
Fischbacha, Antonia	*LAS*	*66*	*	†	*Centralia*
Fischer, Austin Harold Reed	*LAS*	*47*	*		*Chicago*
Fischer, Mary Catherine Eliza	*LAS*	*23*	*	†	*Elmhurst*
Fischer, Mary Louise	*HSAgr*	*57*	*	†	*Addison*
Fischer, Vincent Clarence	*AE*		*	†	*Waukegan*
Fischer, Forrest Adison	*Agr*		*		*Hudson, Kansas*
Fish, Vivian Mary	*Com* (*SS*)	*31*	*	†	*Benton*
Fisher, Frances Agnes	*LAS*	*32*	*		*Kinmundy*
Fischer, Ivan Louis	*Com*	*60*	*		*Logansport, Indiana*
Fisher, Paul	*Agr*	*69*	*	†	*St. Louis, Missouri*
Fisher, Sara Belle	*LAS*		*	†	*Walnut*
Fisherkeller, John Jeremiah	*ME*	*74*	*	†	*Bloomington*
Fishman, Lois Rumsey	*LAS*	*109*		†	*Muscatine, Iowa*
Fishman, Sol Leon	*LAS*	*109*	*	†	*Chicago*
Fisk, Fritz Harris	*Law*	*63*	*	†	*DeKalb*
Fitch, Morgan Lewis	*LAS*		*	†	*Chicago*
Fitch, Ralph Dean	*Agr*	*3*	*		*Greenup*
Fitzer, Marian Lucille	*LAS*	*63*	*		*Belvidere*
Fitzhugh, Greene Smith	*MdP*	*38*	*	†	*Spottsville, Kentucky*
Fitzpatrick, Dorothy	*Com*		*	†	*Chicago*
Fitzpatrick, Margaret Marian	*LAS*	*81½*	*	†	*Chicago*
Flagg, Verna Mary	*SS*	*48½*			*Peoria*
Flanders, Mrs. Annette Hoyt	*Agr*	*158*	*		*Milwaukee, Wisconsin*
Flatt, Nelle Irene	*LAS*	*63*	*	†	*Champaign*
Fleischman, George Samuel	*CE*	*72*	*	†	*St. Louis, Missouri*
Fleischner, Julius	*LAS*	*33*	*	†	*Chicago*
Fleisig, Anselm Joseph	*SS*	*7*			*Cleveland, Ohio*
Fleming, Arthur Isaac	*Agr*		*	†	*Chicago*
Fleming, Ellen Milton	*HSLAS*	*33*	*	†	*Olney*
Fleming, Oscar Jonathan, Jr.	*ME*	*36*	*	†	*Berwyn*
Fletcher, Ralph Emerson	*Com*		*	†	*Morris*
Fletcher, Robert Harry	*LAS*		*	†	*Morris*
Fletemeyer, Helen Mary	*LAS*		*	†	*Lafayette, Indiana*
Flexer, Edna Helen	*HSLAS*	*119*	*	†	*Joliet*
Flickinger, Milo Potter	*CE*		*	†	*Wichita, Kansas*
Flock, Marguerite Pauline	*LAS*	*105½*	*	†	*Urbana*
Flood, Grace H	*LAS*	*95*	*	†	*Terre Haute, Indiana*
Fluke, Autha Maybelle	*LAS* (*SS*)	*94*	*	†	*Chicago*
Fogelson, Robert	*ChE*	*58*	*	†	*Chicago*
Fogerson, Josephine Mason	*LAS* (*SS*)	*42*	*		*Champaign*
Fogle, Ruby Lee	*SS*	*8*			*Yosemite, Kentucky*
Fogler, Mayor Farthing	*Chem*	*104*	*	†	*Champaign*
Fogler, Ralph Waldo	*ChE*		*	†	*Champaign*
Folk, Mildred Lauretta	*LAS*	*9*	*	†	*North Liberty, Indiana*
Fonseca, Manuel	*Agr*	*14*	*	†	*Callao, Peru*
Fontaine, Everett Orren	*Lib*	*183*	*	†	*Momence*
Ford, Kenneth Arthur	*Agr*		*	†	*Chicago*
Ford, Newell Albert	*Agr*		*	†	*Western Springs*
Forty, Dominic	*ME*	*115*	*	†	*Chicago*
Foss, LeRoy Merrill	*Agr*	*27*	*	†	*Cedarville*
Foster, Elliot Eugene	*Arch*		*	†	*Chicago*
Foster, Frank Ward	*EE*	*130*	*	†	*Alexis*
Foster, George Gerwin	*Arch*	*58*	*	†	*Menominee, Michigan*
Foster, John Wellington	*SS*	*55*			*Spring Grove*
Foster, Rhoda Wilda	*LAS*		*	†	*Tipton, Indiana*
Foudray, Walter Ray	*AE*		*	†	*Blackwell, Oklahoma*
Foulke, Ronald Edward	*EE*	*108*	*	†	*Aurora*
Fowler, Frances Cleveland	*LAS*	*60*	*	†	*Marion*
Fowler, Kenneth Merle	*Com*		*	†	*Champaign*
Fowler, Lottie Viola	*LAS*		*	†	*Centralia*
Fox, Arthur Lawrence	*ChE*		*		*Glencoe*
Fox, Austin	*Com*	*28*	*	†	*Oak Park*
Fox, Clement Silas	*SS*	*8*	*		*Decatur*
Fox, Herschell	*Agr*	*17*	*		*Chicago*
Fox, Lucia Byrne	*Agr*	*26*	*	†	*Madison, Wisconsin*
Fox, Philip Hadley	*EE*	*20*	*		*Wheaton*
Frame, Edith Maye	*LAS*	*63*	*		*Urbana*
Franche, Darius Charles	*LAS*	*19*	*	†	*Chicago*

Francia, Jose Nieto	*Com*		*	†	*Philippines*
Francis, Arthur Lewis	*Com (SS)*	*92*	*	†	*Chicago*
Frank, Dudley Liguori	*Com*	*31*	*	†	*Chicago*
Frank, Joseph Liguori	*LAS*	*45*	*	†	*Chicago*
Franken, Gretchen	*HSLAS*	*93*	*	†	*Chandlerville*
Franks, Arthur John	*LAS*	*57*	*	†	*Springfield*
Franz, Alwin F	*ME*		*		*Cleveland, Ohio*
Fraser, Dorothy	*HSLAS*	*30*	*		*Chicago*
Fraser, Gladys Genevia	*HSAgr*		*	†	*Champaign*
Fraser, Hazel Mable	*HSAgr*	*32*	*	†	*Elgin*
Frazey, Alice Belle, A.B., 1898	*LAS*			†	*Urbana*
Frazier, Dorothy Caroline	*HSAgr*	*33*	*	†	*Yorkville*
Frazier, John Z	*Agr*	*94*	*	†	*Paris*
Frazier, Mary Elizabeth	*LAS*		*	†	*Georgetown*
Frede, Glenn William	*Com*	*63*	*	†	*Stewardson*
Frederick, David Arthur	*Com*	*32*	*		*Clarence*
Frederick, Victoria	*LAS*	*31*	*	†	*Trenton, New Jersey*
Freeman, Harry Duke	*Agr*		*	†	*Paducah, Kentucky*
Freeman, Helen Busey	*LAS*	*26*	*	†	*Urbana*
Freitag, Vina	*HSAgr*	*96*	*	†	*Mackinaw*
French, Wendell Maynard	*MdP*	*2*	*	†	*Kansas City, Kansas*
Frey, Hollis Oldfield	*ME*	*125*	*	†	*Bloomington*
Frey, Joseph Richard	*Com*	*64½*	*	†	*Bloomington*
Frick, Arthur Henry	*Agr (SS)*	*111*	*		*Champaign*
Friebel, Carl Gustav	*Arch*		*	†	*Cedar Rapids, Iowa*
Frieder, Roland William	*ME*		*	†	*Chicago*
Friedlund, John Arthur	*LAS*	*30*	*	†	*Chicago*
Friedmann, Arnold Maurice	*CE*		*	†	*Chicago*
Friedmeyer, Earl John	*LAS*		*		*Springfield*
Friedrich, Edgar John	*EE*		*	†	*St. Charles, Missouri*
Frier, Pauline Chapman	*LAS*		*	†	*Benton*
Frison, Theodore Henry	*LAS*	*97*	*	†	*Champaign*
Fritze, Jonathan Ralph	*ChE*		*	†	*Peoria*
Froehly, Arthur Gustav	*EE*	*63*	*	†	*St. Louis, Missouri*
Frohardt, Elmer Philip	*Agr*	*112*	*		*Granite City*
Frommann, Mildred	*LAS*	*80*	*	†	*Chicago*
Frommann, Theodore Emil	*Agr*		*	†	*Chicago*
Frost, Charles Robert Watson	*Com*		*	†	*Winchester*
Frost, Kenneth Thomas W	*Com*	*33*	*	†	*Kankakee*
Frymire, Alden Bowers	*Agr*	*9*	*	†	*Cameron*
Fuller, Florence Stormfeltz	*HSLAS*	*65*	*		*Princeton, Missouri*
Fuller, Willard Smith	*LAS*	*14*	*		*Farmer City*
Fulrath, William Merle	*CE*	*38*	*	†	*Mt. Carroll*
Fulton, Robert Elliott, Jr	*Com (SS)*	*72½*	*	†	*Dixon*
Fulton, William Jewett, Jr.	*Chem (SS)*	*70*	*	†	*Keokuk, Iowa*
Fulton, Zelda Helene	*LAS*		*	†	*LaGrange*
Fultz, Dorothy Steen	*HSLAS*	*32*	*	†	*Bushnell*
Funaro, Carl Heinrich Wendlen	*LAS*		*	†	*Brooklyn, New York*
Fung, Wai San	*Com*		*	†	*Manila, Philippine Islands*
Funk, Irvin Milton	*Com*		*	†	*Kernan*
Funk, LaFayette Jr.	*Agr*		*		*Shirley*
Funk, Mary Adell	*HSAgr*	*10*	*		*Urbana*
Furey, Warren William	*LAS*	*59*	*	†	*Chicago*
Furr, Kenneth	*Com*		*	†	*Genoa*
Furrer, Emery Cloyd	*CE*	*70*	*	†	*Easton*
Fye, Paul Matthews	*EE*	*60*	*		*Mattoon*
Gaarder, Reidar Bastian	*Agr*			†	*Christiana, Norway*
Gaarder, Rolf Harold J	*Com*	*136½*	*	†	*Christiana, Norway*
Gaddis, Jessie Maria	*SS*	*197*			*Champaign*
Gage, Helen Louise	*HSLAS*	*64*	*	†	*Chicago*
Gage, Mildred	*LAS*	*31*	*	†	*Oak Park*
Gailey, Elnore Lee	*MdP*		*	†	*Ashland*
Gaines, Mabel Albertine	*HSLAS*	*24*	*	†	*Broadlands*
Gaines, Mary Glendora	*HSLAS*	*101*	*	†	*Broadlands*
Gaiser, Elsie Lorene	*HSLAS*			†	*Charleston*
Galbraith, Margaret Westannah	*Agr*	*62*	*	†	*Fairbury, Nebraska*
Gale, Edwin Oscar	*ChE*			†	*Oak Park*
Gale, Ralph A	*Agr*	*101*	*	†	*Lincoln*
Gallagher, Fred Barron	*MSE*	*75*	*		*Rockford*
Gallivan, Lyle Hugo	*AE*	*94*	*	†	*Champaign*
Galloway, Herbert James	*AE*		*	†	*Indianapolis, Indiana*
Galster, Alma Lydia	*LAS (SS)*	*16*	*	†	*Tower Hill*
Galster, Augusta Emilie	*LAS (SS)*	*99½*	*	†	*Tower Hill*
Gandhekar, Seturam Sadasiv	*Chem (SS)*	*59*	*	†	*Tanjore, India*
Ganaway, Lelia Maude	*SS*	*105½*			*Mattoon*
Gannon, Laurence Paul	*CE*	*89*	*	†	*Chicago*
Gant, Virgil Arnett	*LAS*		*	†	*Lebanon*
Gantz, Grace Dorothy	*LAS*	*62*		†	*Anchor*
Gard, Edmund Sehon	*ChE*		*		*Springfield*
Gardiner, Robert Parker	*ChE*	*31*	*	†	*Chicago*
Gardner, Edward Ross	*Agr*		*	†	*Morengo*
Gardner, McKinley	*LAS*	*107*	*	†	*Auburn*
Garlough, Melvin Nave	*AE*	*37*	*	†	*Normal*
Garman, Eliza Bonita	*Com*		*	†	*Urbana*
Garman, Horace Bryan	*Law*	*67½*	*	†	*Urbana*
Garman, Ray L	*Agr*	*64*	*		*Bethany*

Garret, James Howard	CE		*	†	Adamston, West Virginia
Garrett, Sherman Scott	LAS		*	†	Champaign
Garrison, Frank Harold	Agr		*		Pearl
Garvey, Benjamin St. John	LAS		*	†	Chicago
Garvey, Edward James	Arch	94	*		Faribault, Minnesota
Garvin, Noah	LAS	29	*		Champaign
Garvin, Wiley Boyce	Agr	32	*		Champaign
Gary, Jesse Lehman	CE	110	*	†	Carmi
Garza, Roman de la	CE	118	*	†	Mexico
Gassmann, Zean Goudy	Com	78	*		Olney
Gast, Walter Ferdinand	ME	34½	*	†	St. Louis, Missouri
Gates, Marian Ethel	LAS	52¾	*		Galesburg
Gaunt, Gail	LAS	102	*	†	Mound City
Gawthorp, Eunice	Com		*	†	Kendallville, Indiana
Gayle, Virginia Gordon	HSLAS		*	†	St. Louis, Missouri
Gaylord, Francis Moses	Com	66	*	†	South Hadley, Massachusetts
Gaynor, Elizabeth Webb	SS	2½			Urbana
Gee, Mary	HSLAS		*		East St. Louis
Gehant, George Modeste	SS	124½			Dixon
Gehlbach, Wilbur August	LAS	32	*	†	Lincoln
Gehrig, Arthur Gustave, B.S., 1917	SS	141			New Douglas
Geiger, Lester Charles	Com	105	*	†	Mendota
Geiger, Mary Berneice	LAS	24⅓	*	†	Baileyville
Geiger, Walter Jacob	EE	72	*	†	Mt. Carmel
Geiler, Frank Herman	LAS	113	*		Mansfield
Geip, Hazel Marie	SS				Champaign
Geip, Lula Maude	SS	9½			Champaign
Geiss, Marie Gertrude	HSLAS	31	*	†	Harvey
Gellert, Donald Nichol	ME	61	*	†	Chicago
Gellert, John Hansen	ChE		*	†	Chicago
Gemmill, Arthur Vernon	ChE	31	*	†	Freeland, Maryland
George, Harold Edgar	Agr	193	*	†	Whittier, California
George, Homer Amos	ChE			†	Champaign
Gerke, Roscoe Harlan	ChE	121½	*		Greenville
Gerlach, Alma	HSLAS	98	*	†	Doniphan, Missouri
Gerling, Richard William	CE	98	*	†	Bloomington
Gernand, Dorothy Love	LAS		*	†	Urbana
Gettle, Francis Samuel	Com	30	*	†	Stuttgart, Arkansas
Gher, Vera	LAS (SS)	2	*	†	Decatur
Gherganoff, Penco	ME	96	*	†	Lovetch, Bulgaria
Gibson, Dorothy Louise	LAS	32	*	†	Chicago
Gibson, Harry Wilson	Com	109	*		Muskogee, Oklahoma
Gibson, James Dick	Com		*	†	Muskogee, Oklahoma
Gibson, John McClure	Agr			†	Springfield
Gibson, Marie Rhodes	LAS		*	†	Champaign
Gift, Myrven Frank	Agr (SS)	30	*		Peoria
Giles, Lewis Wentworth	AE (SS)	78	*	†	Washington, D. C.
Giles, William Frederick	EE		*	†	Brookfield, Missouri
Gillam, Winona Mayble	Agr	67	*	†	Chicago
Gillen, Clifford Ambrose	Com			†	Beardstown
Gillen, John Howard	ME (SS)	109½	*	†	Berwyn
Gillespie, Evangeline Jeanette	LAS	77½	*	†	Harris
Gillespie, Mary Madge	HSAgr		*	†	Harris
Gillham, Charles Elmer	Agr		*	†	Edwardsville
Gillies, Mary Catherine	SS	8⅓			Chicago
Gilman, Leona	LAS			†	Chicago
Gilmore, Philip Lawrence	Com		*	†	Omaha, Nebraska
Gilson, Samuel Reed	Law	34	*	†	Galena
Gimre, Gerald Snyder	Agr	30½	*	†	Marshalltown, Iowa
Ginalski, Frank Edward	EE			†	Chicago
Gindorff, Matthew William	ChE	28	*	†	Chicago
Ginnings, Paul Meade	ChE	68	*	†	Macomb
Gipson, David William	Agr	34	*	†	Amboy
Girhard, Harold Raymond	LAS	112	*		Newton
Gish, Owen Ellyson	RME	73	*	†	Topeka, Kansas
Gjilsness, Rudolph Hjalmar	Lib	1	*		Reynolds, North Dakota
Glanzner, Alma Zella	HSAgr	42	*	†	Lebanon
Glass, Ian	Agr	62		†	Park Ridge
Glassco, Hazel	SS	5			Urbana
Glenn, Harold Martin	LAS		*	†	Urbana
Glidden, Nansen	Agr	33	*		DeKalb
Gliffe, Ethel Florence	LAS	79	*	†	Chicago
Glover, Vernon Leslie	CE	69	*	†	Mattoon
Gnaegy, Mitcheal	AE		*		Chester
Goble, Ivan Bean	Com	25	*	†	Charleston
Goddard, Myron Chester	Com	19	*		Monmouth
Goebel, Anne Vreeland	LAS	32	*	†	Urbana
Goebel, Walter Frederick	LAS	35	*	†	Urbana
Goelitz, Walter Adolph	Agr	104	*	†	Ravina
Goff, Emma Dorothea	SS				Trenton
Going, Judson Freeman	LAS	24	*	†	Chicago
Golb, Samuel Henry	CE		*	†	Chicago
Goldberg, Max Frederick	LAS		*	†	Danville
Golde, Philip Evans	MdP		*		Chicago
Golder, Lloyd William	ME		*	†	Oak Park
Goldschmidt, Erna Claire	HSLAS	113	*	†	Davenport, Iowa

Goldstein, Herman Alfred	*ChE*	*73*	*	†	*Chicago*
Goldstein, Samuel Jules	*ChE*	*42*	*	†	*Chicago*
Gomez, Alfonso Arzapalo	*ME*	*30½*	*	†	*Mexico*
Gooch, Wilbur Ira	*LAS*	*60*	*	†	*Aurora, South Dakota*
Good, Merton M	*LAS*		*	†	*Sheperdstown, West Virginia*
Gooding, Laura Lavonia	*HSAgr* (*SS*)	*65*	*	†	*Belleville*
Goodman, Albert Nelson	*AE*	*69*	*		*LaSalle*
Goodman, George Phineas	*Agr*	*31*	*	†	*Mason City, Iowa*
Goodman, Gerald Marion	*LAS*		*	†	*Palestine*
Goodmann, Beatrice Ida	*HSLAS*	*67*	*	†	*Champaign*
Goodpasture, Gladys Marie	*LAS* (*SS*)	*67*	*	†	*Urbana*
Goodspeed, Willetta W	*Agr*	*32*	*		*Urbana*
Goodwill, Floyd Ormund	*Agr*		*	†	*Pecatonica*
Gordon, Frank Allyn	*LAS*	*63*	*		*Urbana*
Gordon, George Oscar	*SS*				*Stockdale, Ohio*
Gordon, Hazel Augusta	*HSLAS*	*12*	*	†	*Urbana*
Gordon, Louis	*CerE*	*36*	*		*Chicago*
Gordon, Wendell Holmes	*LAS*			†	*Urbana*
Gore, Harmon Carrol	*Agr*	*28*	*	†	*Morris*
Gorman, Algernon DeWaters	*Chem*		*	†	*Elmira, New York*
Goss, Henry Hamilton	*Agr*	*68*	*	†	*Peoria*
Gossard, Helen Ray	*LAS*		*	†	*Kansas City, Missouri*
Gossett, Dick	*ME*		*	†	*Casey*
Gossett, Leo Everett	*Com*	*54½*	*		*Lincoln*
Gossett, William Porter	*LAS*		*	†	*Norris City*
Gossin, Mary Caroline Vashon	*LAS*		*		*St. Louis, Missouri*
Gothard, Ralph Waldamaer	*Com*		*	†	*Dundee*
Gotte, Hugo Palmer	*Com*	*27*	*	†	*Libertyville*
Gotte, Harry Dominie	*SS*	*66*			*Libertyville*
Gottschalk, Arthur Hubert	*LAS*	*70*	*	†	*Springfield*
Gould, Clifford Burt	*CE*	*72*	*		*Aurora*
Gould, Philip Newhall	*LAS*	*67*	*	†	*Evanston*
Gourley, Margaret Travis, A.B., 1909	*SS*				*Paxton*
Gowd, Rayadurg Nagan	*Agr*	*105*	*	†	*Hospeh, India*
Gower, Lawrence Eben	*Agr*		*	†	*Odell*
Grabbe, Lowell Francis	*Com*	*56*	*		*Champaign*
Graden, Emet Earl	*Agr*		*	†	*Nokomis*
Graf, Josef Albert	*LAS*		*	†	*Alton*
Graham, Charles Coleman	*Agr*			†	*Monmouth*
Graham, Florence	*LAS*	*43*	*	†	*Chicago*
Graham, Fred Pearson	*Law*	*26*	*		*Aledo*
Graham, Gordon Clague	*ME*	*67*	*	†	*Chicago*
Graham, Mark Edward	*EE*	*109*	*	†	*Chicago*
Grandey, William Warren	*ME*			†	*Edgerton*
Granert, Howard	*Agr*			†	*Chicago*
Grant, Ruth Margaret, A.B., 1916	*SS*	*136*			*Urbana*
Grant, William Wulfing	*SS*	*31*			*Southbridge, Massachusetts*
Graves, Marian Sydnia	*LAS*		*	†	*Wyoming*
Gray, Daniel DeWitte	*EE*	*32*	*		*Chicago*
Gray, Harold Y	*Com*	*24*	*	†	*Champaign*
Gray, James Madison	*Com*	*104*	*	†	*Decatur*
Gray, Sidney Jay	*Agr*	*33*	*		*Princeton*
Graybill, Clara May	*LAS* (*SS*)	*47½*	*	†	*Decatur*
Graydon, William Dewey	*EE*		*	†	*Chicago*
Grear, Helen Louise	*SS*				*Anna*
Green, Esther Cranston	*HSLAS*	*100*	*	†	*Urbana*
Green, Herschel Samuel	*LAS*	*31*	*	†	*West York*
Green, Mabel Sallie	*SS*	*8*			*Salem*
Green, Robert Marion	*Agr*	*16*	*	†	*Chicago*
Greene, Harold Nathaniel	*Agr*		*	†	*Champaign*
Greene, Mrs. James H	*Mus*		*	†	*Garrett, Indiana*
Greene, Joel Waring	*Agr*	*100*	*		*Urbana*
Greene, Josephine Dorothy	*LAS*	*61¾*	*	†	*Chicago*
Greene, Scott Corwith	*LAS*	*63*	*	†	*Wilmette*
Greenhalgh, Amy Elizabeth	*LAS*	*22*	*	†	*Hillsboro*
Greenman, Ruth Ann Maria	*LAS*	*33*	*	†	*Pana*
Greenup, Nell Blanche	*SS*	*2*			*Osborn, Missouri*
Greer, Donald Malcolm	*LAS*	*59½*	*	†	*Anderson, Indiana*
Greer, Velma Loys	*SS*	*6½*	*		*Chauncey*
Gregory, John Milton	*LAS*	*100*	*		*Kansas City, Missouri*
Greist, Raymond Lewis	*ME*		*		*Chicago*
Gresens, Otto	*ChE*	*4*	*	†	*West Chicago*
Gridley, Frederick Russell	*CE*	*37*	*	†	*Amboy*
Griffin, Glenn Frank	*Lib* (*SS*)	*3*	*		*Traverse City, Michigan*
Griffith, Andrus Oliver	*LAS*		*	†	*Ashton*
Griffith, Arthur Beckwith	*SS*	*8*			*Kittanning, Pennsylvania*
Griffith, Mabel Frances	*LAS*		*	†	*Rankin*
Griffith, Maude Marjorie	*LAS*	*60*	*	†	*Ashton*
Griffith, Stanwood John	*Agr*	*105*	*	†	*Ashton*
Griggs, Clarence Dominique	*Agr*		*	†	*Metamora*
Griggs, Marshall Clyde	*Com* (*SS*)	*60*	*	†	*Metamora*
Grigsby, Melborn Redmon	*SS*	*31½*			*Petersburg, Indiana*
Grimes, Earl Jerome	*Agr*	*89½*	*	†	*Russellville, Indiana*
Grimes, Helen Jane	*LAS*	*27*	*	†	*Danville*
Grimes, Ruby Mabel, A.M., 1913	*SS*				*Rapid City, South Dakota*
Grimm, Thomas Carlyle	*LAS*	*34*	*	†	*St. Louis, Missouri*

Gripp, Elmore Albert	Com	111	* †	Moline
Grisemer, Walter	LAS	99	* †	Royal Center, Indiana
Grizzelle, Miles Crumbaugh	LAS	35	* †	LeRoy
Grommon, Helen Wightman	HSLAS (SS)	108	* †	Plainfield
Grosche, Alfred George	Agr	59	* †	Mattesen
Gross, Dorothy Lillian	HSLAS	48	* †	Carlyle
Gross, Raymond Edward	CE		* †	Beardstown
Grossberg, Ralph Edwin	Com		†	Chicago
Grossberg, Victor Hubert	Law	72	* †	Chicago
Grotefeld, Harold Leesmann	ME		* †	Chicago
Grotevant, Nina	HSLAS	98	* †	Pekin
Grounds, Preston Whitfield	Com		* †	Chicago
Grover, Donald Dana	AE	74	* †	Rockford
Groves, Charles Harold	Com	61	†	Urbana
Groves, Franklin Isaac	Agr		* †	Williamsville
Grunewald, Carl Frederick	LAS	77	* †	Chicago
Guenther, Louis Henry Edward	ME	12	* †	LaSalle
Guernsey, Ernest William	Chem	99	* †	Vincennes, Indiana
Guha, Monnida Chanda	LAS (SS)	33	* †	India
Guild, Marie Adams	Law		†	Monmouth
Gulick, Charles Ward	EE	36	* †	Champaign
Gulick, Mrs. Louise Scherman	SS	7		Urbana
Gulley, Sanford Joseph	ME (SS)	83½	*	Urbana
Gumm, Minnie Carol	LAS	31	* †	Marseilles
Gunder, Helen Elizabeth	HSLAS		* †	Fairmount
Gunning, James Thomas	Com		* †	Champaign
Gunning, Nadine Elsie	HSLAS	61	* †	Wilmington
Gunning, Tress Kathleen	Com		* †	Champaign
Gupte, Shantaram Shankar	LAS		* †	India
Gurda, Francis Stanislaus	AE	52	* †	Milwaukee, Wisconsin
Guthrie, John Oliver	Com	34	* †	LaSalle
Guy, Lillian Eleanor	LAS		* †	Buffalo, Wyoming
Gwinn, Andrew Burkey	LAS	28	†	Bunker Hill, Indiana
Haage, Ivan Lyle	LAS		* †	Mazon
Haake, Harry George	CE	83	* †	Urbana
Haas, Orville Francis	REE	108	* †	ElPaso
Haas, Raymond Christian	Com	69	* †	Evansville, Indiana
Haase, Elizabeth Elsa	LAS	40	*	Oak Park
Hackenberg, Robert Allen	Com		†	Staples, Minnesota
Hacker, Linder William	SS	8½	*	Golconda
Hackman, Eldon Duffy	Com		* †	Havana
Hackman, Hazel Marie	LAS		* †	Staunton
Hackney, Joseph Dryden	Com	31	* †	Carthage, Missouri
Hadden, Stanley Beai B.S., 1914	SS	150½		Penfield
Hadelman, Louis	MSE (SS)	66	* †	Waukegon
Hagan, Bernard Anthony	ME	61	* †	Champaign
Hagan, Helen Lucile	LAS		* †	Champaign
Hager, Frank Stafford	ME	71	* †	St. Louis, Missouri
Haggerty, Sara Mae	LAS	94	* †	Los Angeles, California
Hague, Edith Elizabeth	Lib	33	* †	Urbana
Hahn, Grace Louise	HSAgr	101	* †	West Chicago
Haig, Augusta Pauline	SS	8		Caseyville
Halas, George Stanley	CerE	109	*	Chicago
Haldeman, Glenn Merlin	EE	100½	*	Ponca City, Oklahoma
Haldeman, Virgil Kenneth	EE		* †	Ponca City, Oklahoma
Hale, Cedric	ChE	27	* †	Chicago
Hale, George Theodore	CE		* †	Kewanee
Hall, Allen Howell	LAS	34	*	New Jersey
Hall, Andy Jr.	LAS		†	Mt. Vernon
Hall, Cecil James	Com	66	*	Urbana
Hall, Charles Proctor	ChE		* †	Kansas City, Missouri
Hall, Edward Knight	Agr	100	* †	Ladybrand
Hall, Hugh Fisher	Agr		* †	Bement
Hall, Joseph Lowe	ChE		†	Sullivan
Hall, Karl William	ME	142	* †	Cherokee, Iowa
Hall, Kenneth Canright	Com	94	* †	Chicago
Hall, Margaret	LAS		†	Belle Rive
Hall, Otis Jr	MdP		*	Carterville
Hall, Wilfred Emil	LAS		* †	Waukegan
Halladay, Frank Herbert	EE		* †	Buda
Halladay, Harriett Virginia	LAS	30	* †	Streator
Hallauer, William Edward	AE		* †	Davenport, Iowa
Halliwell, Ashleigh Drake	Com	69	* †	Chicago
Hallman, Rhea Victoria	LAS		* †	Aurora
Hamill, Warren Catlin	Com	18	* †	Marissa
Hamilton, Don Herman, B.S., 1917	SS	139½		Paris
Hamilton, Holbrook Becker	Com	31	* †	Augusta
Hamilton, Miles Hoadley	Chem		* †	Peoria
Hamilton, Ray Leonidas	LAS	68	* †	LaSalle
Hamlin, Ina Marie	Com	32	* †	Urbana
Hammer, Lyle Frederick	Com		* †	Farmer City
Hammon, Clarence Trumbull	Agr	29	*	Edinburg, Indiana
Hammond, Catherine Mary	LAS		* †	Pawnee
Hammond, Leonard Ayers	Agr	100	* †	Warsaw
Hammond, Ruth Florence	SS			Frankfort, Indiana
Hampson, Beulah F	HSLAS		* †	St. Louis, Missouri

Hampson, Herbert	ME	55	*		Mattoon
Hanaford, Earl Joseph	Com	70	*	†	Elgin
Hanawalt, William Gilbert	ME	72	*	†	Galva
Hance, George Martin	Agr	67	*	†	Marengo
Hancock, Walden Wood	Com	93	*	†	Casey
Hanft, Theodor Martin	Agr	34	*	†	New Athens
Hanschmann, Fred Robert	AE	100	*	†	Dalton
Hansen, Anker Fred	Arch	107	*		Oshkosh, Wisconsin
Hansen, Edward Christian	ME		*	†	Chicago
Hansen, James Edward	LAS	36	*	†	Brookston, Indiana
Hanson, George Herbert	ChE	4	*	†	Chicago
Hanson, Jennings William	EE	70	*	†	Chicago
Harbicht, Harlan Carl	MinE	117	*		Hannibal, Missouri
Hardesty, Bonnie Jean	HSLAS	77	*	†	Homer
Hardesty, Josephine Frances	LAS		*	†	Homer
Harding, Frank Ray	AE		*	†	Streator
Harding, Leola Glenn	SS	16			Greenville
Harding, William Thomas	Chem	86½	*		Greenville
Hardy, Howard Henry	Agr	67	*		Watseka
Harkins, Edith Leora	LAS (SS)	33	*	†	Tonica
Harlan, Avery Stark	ChE	34	*	†	Indianapolis, Indiana
Harman, Howard Wynes	CerE		*	†	Peoria
Harmeling, Henry Charles	EE		*	†	Paducah, Kentucky
Harmon, Madonna Marguerite	HSAgr	20	*		Marion, Indiana
Harms, Robert Harmon	Law		*	†	Chatham
Harn, Jerry Anson	Law	47	*	†	Lewiston
Harnack, Vernon Leslie	Chem	64	*	†	Urbana
Harnsberger, Viola Gertrude	SS	8			Champaign
Harper, Bertha May, B.S., 1907	SS	135½			Urbana
Harper, Ernest Glenn	SS	60½			Glasford
Harper, Julia A	SS				Urbana
Harrington, Bernard Wilfred	Law	63	*	†	Champaign
Harrington, Earl Charles	Law	34½	*	†	Champaign
Harrington, J G	LAS	23	*	†	Allendale
Harrington, Rollen Barnes, A.B., 1917	SS	130			Logan, Ohio
Harris, Emma	SS	7½			Collinsville
Harris, John Edgar	Agr		*	†	Coffeen
Harris, Maurice	Chem	67	*		Chicago
Harris, Richard August	ChE	33	*	†	Quincy
Harris, Robert Bruce	Agr	96	*		Gilman
Harrison, Benjamin Samuel	LAS (SS)	115	*		Villa Grove
Harrison, Bernice, A.B., 1912	SS				Champaign
Harrison, Bruce Kinder	Agr		*		Elgin
Harrison, Elbert Iredell	AE	66	*		Bloomington
Harrison, Hugh Brooks	Com		*	†	Clinton
Harrison, Jeanette	MdP (SS)	40	*	†	Kankakee
Harrison, Robert Lewis	CE		*		St. Louis, Missouri
Harrison, Ruth	HSAgr	25½	*	†	Clinton
Harsch, John Will	ChE	34½	*	†	Ottumwa, Iowa
Harshman, Samuel H	Agr		*	†	Harshmanville
Hart, Archie Harrison	Agr	114	*		Grand Chain
Hart, William James	LAS	30	*	†	Fairmount
Hartman, Howard Levi	Arch		*	†	Indianapolis, Indiana
Hartman, Lucille Marie	LAS	29	*	†	New Albany, Indiana
Hartmann, William Monroe	LAS	75	*	†	Chicago
Hartwell, Godfrey	AE	109	*	†	LaPorte, Indiana
Harvey, Alfred Dallas	RCE	36	*	†	Kansas City, Missouri
Harvey, William Clyde	Com	19	*		Manteno
Harwood, Richard Alexander	LAS			†	Winnipeg, Canada
Haselton, Harry Chamberlain	Agr	33	*	†	River Forest
Hasenpflug, Roy	EE	36	*	†	Waterloo, Ontario
Hatch, Brainard Garretson	EE		*	†	Peoria
Havens, James Dewey	Com	33	*	†	Lodoga, Indiana
Hawkins, Fred Bailey	CE		*		Sullivan, Indiana
Hawley, Webster Clark	Agr	31	*	†	Chicago
Hawthorne, Wendell Zenas	Arch	32	*	†	Waukegan
Hay, Isaac Morris	MdP		*	†	Sycamore
Hay, Thomas Frank	Com		*	†	Chicago
Hayes, Edward Bean	LAS	105	*	†	Urbana
Hayes, Oliver Howard	Agr	46	*		Pleasant Plains
Hayman, Joseph Luther	Agr		*	†	Aledo
Hayne, Walter Elliott	EE	106	*	†	Chicago
Hays, Edward Cormoran	Com		*	†	Marion, Indiana
Hays, Rolfe Miller	EE		*	†	Westfield
Hayward, Harold Eugene	LAS			†	Cooksville
Hayward, Morris Hathaway	Agr	23	*		Peoria
Hazeltine, Richard Gibson	Agr		*		St. Louis, Missouri
Hazzard, Carter Winslow	Com		*	†	Chicago
Head, Glenn Lloyd	SS				Sciota
Heckel, Herman Conrad Niece	Chem	25½	*	†	Chicago
Heckman, Walter Chris	EE	36	*	†	Pekin
Heda, Arthur Mandil	AE			†	Chicago
Hedenberg, John Wesley	Agr	25	*	†	Chicago
Hedgcock, Martha Elizabeth	HSLAS (SS)	107	*	†	Plymouth
Hedgcock, Ralph Everette	CE	64	*		Augusta
Hedge, Margaret	LAS		*	†	Chicago

Hedrick, Marie Adaline	*Lib*	*27*	*	†	*Kansas City, Missouri*
Hegan, Wherritt Werden	*Com*		*	†	*Maywood*
Hegsted, Martin Anton	*AE*	*108*	*	†	*Chicago*
Heidler, Joe Bunn	*LAS*	*100*	*	†	*Springfield*
Heikes, Marion Helen	*LAS*		*	†	*Dakota City, Nebraska*
Heikes, Samuel Irving	*Com*	*36*	*	†	*Dakota City, Nebraska*
Heilbron, Simeon Edwin	*LAS*		*	†	*Chicago*
Heimlicher, Ruth Eugenia	*LAS*		*		*Champaign*
Henricke, Herbert Martin Edward	*ChE*	*72*	*	†	*St. Louis, Missouri*
Heinz, Peter Henry	*Agr*		*	†	*Carlinville*
Heizer, Edith	*LAS*	*30*	*	†	*Maywood*
Held, Irene Lucille	*HSLAS*	*82*	*	†	*Clay Center, Kansas*
Helm, Harry Gray	*LAS*	*100½*	*	†	*Grayville*
Helm, Laeta Elizabeth	*HSLAS*	*33*	*	†	*Springfield*
Helmreich, Felix Herman	*Agr*		*	†	*Crescent City*
Helper, Walter Champ	*Agr*		*	†	*Henry*
Hemb, Harold Borden	*ME*	*72*	*	†	*Dundee*
Hemb, Thorrald Edward	*Com*	*35*	*	†	*Dundee*
Hempsted, James Evans	*ME*		*	†	*Chicago*
Henderson, Anna Hazel	*LAS*	*98*	*	†	*Champaign*
Henderson, Ernest Miller	*ME*		*	†	*Davenport, Iowa*
Henderson, Louis Rand	*Agr*		*	†	*Biggsville*
Henderson, Mary Abigail	*LAS*	*86*	*	†	*Champaign*
Henderson, Russell Dewey	*Arch*		*		*Humrick*
Henderson, Weldon Stewart	*ChE*		*	†	*Kansas City, Missouri*
Henn, Hildagard Anna Sarah	*HSAgr*	*117½*	*		*Toluca*
Henn, Russell Jennings	*LAS*	*23*	*	†	*Paris*
Henneberry, James Leo	*ME*	*15½*	*	†	*Rankin*
Henning, Caspar Ferdinand	*MSE*	*74*	*	†	*Mendota*
Henninger, Fred A Jr.	*Arch*	*16½*	*	†	*Omaha, Nebraska*
Henry, Elizabeth	*Lib*	*49*		†	*Quincy*
Henry, Victor Max	*Agr*	*70*	*	†	*Champaign*
Henry, Nina Rose	*SS*	*6½*			*Bloomington*
Henson, Charles Newell	*Com*	*32½*	*	†	*Villa Grove*
Henson, Margaret Emily	*Agr*	*96*	*	†	*Urbana*
Henson, Ralph Corwin	*RE*		*	†	*Mt. Sterling, Ohio*
Herdman, Frank Victor	*ME*	*73*	*	†	*Winnetka*
Herold, Hugo Adrian	*LAS*		*		*Jerseyville*
Herrcke, Ralph J	*Com*	*25*	*	†	*LaSalle*
Herriott, Opal Vida	*HSAgr*	*32*	*	†	*Champaign*
Herrman, Clarence Charles	*Com*	*30*	*	†	*Kenosha, Wisconsin*
Herrmann, Henry Julius	*EE*		*	†	*Chicago*
Hersman, Gladys Elizabeth	*HSLAS*		*	†	*Hersman*
Herwig, Lee Conrad	*CE (SS)*	*36½*	*	†	*Ashton*
Heseman, Henry Bailie	*Com*	*36*	*	†	*Altamont*
Hess, Doris Edna	*Mus*		*	†	*Champaign*
Hess, Ida Alice	*HSAgr*		*	†	*Urbana*
Hess, Paul David	*MinE*	*64*	*		*Pittsburg, Kansas*
Hesse, Aubrey Lawson	*Com*		*	†	*Elgin*
Hetherington, Winifred	*HSLAS*		*	†	*Harrisburg*
Heuer, Joseph Henry	*CE*	*36*	*	†	*Libertyville*
Hewes, Edwin Butcher	*LAS*		*	†	*Quincy*
Heyduck, Lawrence Eugene	*ME*	*67*	*	†	*Centralia*
Hibbs, Germa Ernestine	*SS*	*8*			*Astoria*
Hickman, Feryl Frances	*LAS*	*26*	*	†	*Urbana*
Hickman, Lucie Pearl, A.B., 1910	*LAS*			†	*Urbana*
Hicks, John Emer	*Agr*	*33*	*	†	*Onarga*
Hicks, Mrs. Mary Hannah B	*Chem (SS)*	*95*	*	†	*Champaign*
Hicks, Vivian Elizabeth	*LAS*	*23*	*	†	*Columbia, Missouri*
Hiett, Jessie Earl	*SS*	*8*			*Wray, Colorado*
Higgins, Arthur Eugene	*Com*	*29½*	*	†	*LaGrange*
Hight, John Harold	*Com*		*		*Assumption*
Hilburn, Carl Thomas	*AE*	*152*	*		*Bicknell, Indiana*
Hill, Dorothy Huntington	*HSAgr*		*	†	*Yorkton, Sask., Canada*
Hill, Evelyn Ruth	*Mus sp*			†	*Carbondale*
Hill, Harold Wayne	*MdP*	*32*	*	†	*Decatur*
Hill, Helen Wilder	*Agr (SS)*	*24*	*		*Decatur*
Hill, Irving Hammond	*EE*	*32*	*	†	*Hammond, Indiana*
Hill, Lawrence Elias	*AE*	*78*	*	†	*Chicago*
Hill, Mary Muriel	*LAS*	*60*		†	*Kansas City, Missouri*
Hill, Raymond Max	*Agr*	*35*	*	†	*Vincennes, Indiana*
Hill, Roy Geibe	*Law*		*	†	*Mt. Vernon*
Hill, Virl Zinn	*MdP*	*26*	*	†	*Streator*
Hiltabrand, Wendell Phillips	*Agr*	*95⅝*	*	†	*Peoria*
Hilton, Ivan Jay	*LAS*	*36*		†	*Springfield*
Hine, Frederick Otis	*MinE*		*	†	*Highland Park*
Hines, Harry Christopher	*MdP*		*	†	*Champaign*
Hinrichs, Herbert Stassen	*Agr*	*115*	*		*Joliet*
Hirth, Mildred Odelia	*HSLAS*	*27½*	*	†	*Quincy*
Hite, Edward Spalding	*Arch*	*32*	*	†	*Terre Haute, Indiana*
Hitt, Willia Henry	*MinE*		*		*Chicago*
Hixon, Hope Ada	*LAS*	*65*	*	†	*Urbana*
Ho, Chee Kin	*MinE*	*36*	*	†	*Hong Kong, China*
Ho, Tse Pao	*ME*			†	*Peking, China*
Hobart, Floyd Beatty	*ChE*	*34*	*	†	*West Lebanon, Indiana*
Hobart, Garrett Hugh	*Agr*		*	†	*Urbana*

Hocking, Helen Elizabeth	*LAS*		* †	*Rockford*
Hodges, Glen Caraway	*MdP*		*	*Ridgefarm*
Hodges, Harriette Lois	*Com*		* †	*Rock Island*
Hodges, Ira Wilson	*Agr*		*	*Ridgefarm*
Hodgson, Horace Mulford	*LAS*		* †	*Rockford*
Hodsdon, Ruth Elizabeth, A.B., A.M., 1913, 1915	*LAS*		* †	*Lynden*
Hoehnke, Herbert William	*AE*	*109*	*	*Sheboygan, Wisconsin*
Hoener, Edgar Preston	*ME*		* †	*St. Louis, Missouri*
Hoffer, John George	*SS*			*Chicago*
Hoffman, Harold	*Com*	*69*	* †	*Dwight*
Hoffman, Harry Burton	*Agr*	*33*	* †	*Vandalia*
Hoffman, John Brewster	*ChE*		* †	*Kewanee*
Hoffman, Mayme Gertrude	*LAS*		* †	*Spring Valley*
Hoffman, Elizabeth Stark	*LAS*		* †	*Champaign*
Hoffman, Mary Margaret	*HSLAS*	*71*	* †	*Champaign*
Hogan, Carl Monta	*LAS*	*96*	* †	*Baraboo, Wisconsin*
Hohman, Frederick Ralph	*LAS*		†	*Milwaukee, Wisconsin*
Hohman, Ralph Henry	*LAS*		*	*Nashville*
Holaday, Kenneth Marion	*ChE*	*102*	* †	*Mattoon*
Holderman, Gordon Abraham	*Agr*		* †	*Morris*
Hollandsworth, Josephine Blanche, A.B., 1916	*Mus*	*142*	* †	*Canton*
Hollerich, Joseph Francis	*MdP*		* †	*Spring Valley*
Hollingsworth, Chauncey Raymond	*EE*	*73*	* †	*Stronghurst*
Hollingsworth, Denzil Maurice	*CE*		* †	*St. Louis, Missouri*
Holman, Ruth Carolyn	*LAS*	*65½*	* †	*Kokomo, Indiana*
Holmes, Oliver Wendell	*Agr*	*125*	*	*Greenfield*
Holstein, Golda	*SS*	*6½*		*Urbana*
Holt, Earle Frank	*Com*		* †	*Kenosha, Wisconsin*
Holt, Elizabeth Warner	*HSLAS*		* †	*Evanston*
Holt, Nellie	*HSLAS*		* †	*Greenup*
Holtermann, Ina Lucille	*HSLAS*		* †	*Sadorus*
Holton, William Bultman	*ChE*		* †	*Olmsted Falls, Ohio*
Holtzman, Harold Hoover	*Agr*	*70*	* †	*Chicago*
Honaker, Lombe Scott	*SS*			*Wytheville, Virginia*
Honey, Myrtle Eveline	*HSAgr (SS)*	*102*	* †	*Champaign*
Honnold, Loie James	*Agr*	*105*	*	*Kansas*
Hoover, Glen Lefevre	*Com*		* †	*Sterling*
Hoover, Ruth Irene	*LAS*		* †	*Lovington*
Hopmann, Clara Frieda	*SS*	*6*		*St. Louis, Missouri*
Hopson, Emet Niccols	*Agr*	*92*	*	*Girard*
Horen, Louis Lee	*CE (SS)*	*94*	* †	*Madison*
Horn, Robert Marion	*ME*		* †	*East St. Louis*
Horner, Helen Louise	*SS*	*5½*		*Lebanon*
Horrall, Kinneth Chauncey	*Com*	*31*	* †	*Olney*
Horton, Erle Francis	*ME*	*37*	* †	*Wilmington*
Horton, Ethel	*LAS*	*94*	* †	*Pond Creek, Oklahoma*
Horwich, David	*AE*	*108*	* †	*Chicago*
Hoskins, Robert Keith	*Com*	*90*	* †	*Terre Haute, Indiana*
Hosman, Paul DeWitt	*SS*	*47½*		*Norfolk, Nebraska*
Hostetler, William Benton	*Com*	*100*	* †	*Decatur*
Hottes, Flora Emily	*LAS (SS)*	*98⅝*	* †	*Urbana*
Hottinger, Ethel Marian	*LAS*	*69*	* †	*Chicago*
Hough, Ernest Ray	*ME*		* †	*Champaign*
Hough, George Jere	*Com*	*25*	*	*Maywood*
Hough, Lida Cremora	*LAS*		* †	*Chicago*
Hough, Warren Roberts	*Com*		* †	*Danvers*
Houghton, Edward William	*Agr*		*	*Petersburg*
House, Leona Pearl, A.B., 1898	*Mus (SS)*		* †	*Champaign*
Hovey, Russell Wilson	*SS*	*39½*		*Capron*
Howard, Daniel Orson	*Com*		*	*Champaign*
Howard, Edward Cuny	*MdP*		* †	*Mounds*
Howard, George Edmund	*SS*	*8*		*Farina*
Howard, John Carver	*EE*		* †	*Champaign*
Howe, Alice Manette	*LAS*		*	*Rantoul*
Howe, Carleton Gibson	*Agr*		* †	*Chicago*
Howe, Clifford	*Com*	*60*	* †	*Miles City, Montana*
Howe, Edna Mae	*LAS (SS)*	*19*	* †	*Rantoul*
Howe, Eva	*LAS*	*41*	* †	*Mansfield*
Howe, Josephine	*LAS*	*70*	* †	*Mansfield*
Howe, Roger Faxon	*Agr*	*106*	†	*Chicago*
Howe, William	*CE*		*	*Rantoul*
Howe, William Clayton	*Com*	*32*	* †	*Mansfield*
Howell, Edward Tillson	*ChE*	*71*	* †	*Dixon*
Howell, Oliver Willis	*Com*	*32*	* †	*Arthur*
Howell, William Claiborne	*SS*	*116⅞*		*Starkville, Mississippi*
Howells, Mary Georgia	*HSAgr*	*98*	* †	*Staunton*
Howells, Ruth Cound	*LAS*	*99*	* †	*Staunton*
Howk, Charles Dean, A.B., 1915	*SS*	*143½*		*Assumption*
Howson, Arthur Wessels	*CE*		* †	*Urbana*
Hsieh, Hsueh Lian	*Com*		* †	*China*
Hsu, Kwanfu Weiman	*LAS*		†	*Shanghai, China*
Hsun, Ching Lee	*SS*			*China*
Hubbell, Mrs. Alma Marietta	*SS*		*	*Urbana*
Hubble, Brownlee Martin	*Agr*	*93*	*	*Jacksonville*
Huber, John Bartholomew	*LAS*		* †	*Champaign*

Huber, Louis William	*CE*		*	†	*Champaign*
Huber, Marie	*LAS*	*11*	*	†	*Champaign*
Hucker, George Everett	*ME*		*	†	*Lake Villa*
Hudgens, Elsie Alela	*HSLAS*		*	†	*Johnson City*
Hudlin, Richard Alphonsus	*LAS*		*		*St. Louis, Missouri*
Hudson, Charles Henry	*Chem*	*33*	*	†	*Oak Park*
Hudson, Hersel Windell	*Agr*	*69*	*	†	*St. Joseph*
Huff, Katherine	*LAS*	*31½*	*	†	*Champaign*
Huffman, Eugene Stewart	*Chem*	*58*	*	†	*Rockford*
Hug, Leslie Joseph	*Arch*		*	†	*Highland*
Huggler, Lillian Frieda	*SS*	*71*			*East St. Louis*
Hughes, Clarence Orville	*MdP (SS)*	*48*	*	†	*Monticello*
Huisken, Harry Arnold	*CerE*	*103*	*		*Chicago*
Hulet, Jay Earle	*LAS*	*33*	*	†	*Urbana*
Hull, Elinor Davis	*HSAgr*	*25*	*	†	*Morris*
Hull, Louise	*Mus*		*	†	*Salem*
Hull, Lucile Jane	*SS*	*13*			*Mt. Vernon*
Hull, Trustum Harold	*Com*	*67*	*	†	*Clinton*
Hullfish, Henry Gordon	*Agr (SS)*	*40*	*	†	*Washington, D. C.*
Hummeland, Ralph Wendel	*CerE*	*94*	*		*Melrose Park*
Humphrey, Martha Blair	*HSLAS*	*35*	*	†	*St. Louis, Missouri*
Humphrey, Venus	*Mus*		*	†	*Gilman*
Humphreys, Gertrude	*HSLAS*	*67*	*	†	*Organ Cave, West Virginia*
Humrichouse, Katie Lydia Edna	*Com*	*63*	*	†	*St. Joseph*
Humrickhouse, Thomas Shueman	*Agr*		*		*Coshocton, Ohio*
Hungerford, Harold Norton	*Agr*	*99*	*	†	*Joliet*
Hunsley, Alice Lillian	*HSLAS*	*98*	*	†	*Champaign*
Hunt, Carroll Robert	*Agr*	*26*	*	†	*Chicago Heights*
Hunt, Clayton Saunders	*CE*		*	†	*Urbana*
Hunt, Dorothy Harriet	*HSAgr*	*66*	*	†	*Cambridge*
Hunt, Marsden Healey	*CerE*	*66*	*	†	*Champaign*
Hunt, Milton Tilmore	*Com*	*70*	*	†	*Warsaw*
Hunt, Valentine Brewster	*Arch*	*68*	*	†	*Kansas City, Missouri*
Hunt, William Bishop	*Lib*		*	†	*Northfield, Minnesota*
Hunter, Adella Aileen	*LAS*	*69*	*	†	*Champaign*
Hunter, Lloyd Hiram	*Com*	*61*	*	†	*Henry*
Hunter, Margaret	*HSLAS*	*97*	*	†	*Chillicothe*
Huntington, Lloyd Lucius	*AE*	*36*	*	†	*Pontiac*
Huntley, Edgar Allen	*ChE*	*29*	*		*Lead, South Dakota*
Huntley, Harvey Russell	*Agr*		*		*Huron, South Dakota*
Hurley, Frank John Jr.	*Com*	*67*	*	†	*Chicago*
Hurwitz, Emanuel	*LAS*		*	†	*Chicago*
Hurwitz, Samuel Howard	*Com*		*	†	*Chicago*
Huston, Susannah	*LAS*		*	†	*Paris*
Hutchins, Anna Elizabeth	*LAS*	*32*	*	†	*Roscoe*
Hutchins, Marjorie, B.Mus., 1915	*SS*	*150*			*Urbana*
Hutton, Clifford Walter	*Arch*	*69*	*	†	*Waterloo, Iowa*
Hutton, Hobart Graham	*Agr*		*	†	*Brighton, Maryland*
Hyde, Harvey Woolsey	*ChE*	*71*	*	†	*Watertown, New York*
Hyde, Leonard Grills	*Com*		*	†	*Chicago*
Hyde, Marion Alice	*SS*				*Rantoul*
Hyslop, Mrs. Bertha	*Mus*		*	†	*Urbana*
Ibenfeldt, Ralph Winfield	***ME***			**†**	***Chicago***
Ide, Robert Armington	*LAS*	*68*	*		*Washington, D. C.*
Ilett, Willard Everett	*Law*		*		*LaGrange*
Illsley, Ralph William	*ME*		*	†	*Chicago*
Imlay, Raymond Edward	*Agr*	*34*	*		*Zanesville, Ohio*
Ingles, Glen Leslie	*LAS*		*	†	*Redfield, South Dakota*
Ingmanson, John Harold	*ChE*		*	†	*Harvey*
Ingwers, Alfred Henry	*Arch*	*108*	*	†	*Moline*
Ingwerson, Burton Ahrens	*CE*	*36*	*	†	*Fulton*
Ingwerson, John Arthur	*LAS*	*35*	*	†	*Chicago*
Inman, William Burke	*Law*		*	†	*Murphysboro*
Inouye, Tomi	***Agr sp***			**†**	***Chiba City, Japan***
Ireland, Hallie Madeline	*LAS*		*	†	*Washburn*
Ireland, Matilda Isabel	*LAS*	*81*	*	†	*Washburn*
Irwin, Dalton	*Com*	*79*	*	†	*Grand Forks, North Dakota*
Irwin, Letha Patterson	*SS*	*16*			*Frankfort, Indiana*
Isaacson, Oliver Theodor	***ME***	***68***		**†**	***Sanborn, Minnesota***
Isobe, Seichi	*ME*	*22½*	*	†	*Osaka, Japan*
Ito, Kinichiro	*EE*		*	†	*Annaka, Japan*
Ito, Riu	*Agr*		*		*Matsudo, Japan*
Iwig, Dorothy Josephine	*HSAgr*	*98*	*	†	*Peoria*
Jack, Madeline Sarah	*HSLAS*		*	†	*Beaucoup*
Jackson, Alma Augusta	*HSAgr*		*	†	*Philadelphia, Pennsylvania*
Jackson, Andrew Stokes	*LAS*		*	†	*Champaign*
Jackson, Anna Elizabeth	*LAS*	*62*	*	†	*Champaign*
Jackson, Ernest Theodore	*SS*	*54*			*Odin*
Jackson, Euris	*SS*	*6*			*Mt. Vernon*
Jackson, Hobart Harry	*CE*	*35½*	*	†	*Kenny*
Jackson, Luella Elizabeth	*LAS*	*76*	*	†	*Ouray, Colorado*
Jackson, Mabel Clare, A.B., 1915	*SS*	*135½*			*Danville*
Jackson, Thomas Henry	*Agr (SS)*	*92*	*	†	*Champaign*
Jacobi, Herbert Jacob	*AE (SS)*	*89*	*	†	*Milwaukee, Wisconsin*
Jacobs, Donald Lee	*LAS*		*	†	*Trivoli*
Jacobs, Rufus Markus	*Arch*		*		*Sharon, Wisconsin*

Jacobson, Henry George M	*Agr*	*102*	*	†	*Chicago*
Jacquin, Wentworth Cory	*LAS*	*95*	*	†	*Peoria*
Jakubowski, Stanley Anton	*ME*	*73*	*	†	*Chicago*
James, Helen Ida	*LAS*	*109*	*		*Whitewater, Wisconsin*
James, Walter Robert	*Com*	*29*	*	†	*Oak Park*
Jamison, Glen Thomas	*EE*		*	†	*Joplin, Missouri*
Jamison, Harold Edward	*AE*	*26*	*	†	*Pontiac*
Jamison, Ross Phillips	*Agr*	*34*	*		*Pontiac*
Janata, Anton James	*Chem*	*56*	*	†	*DeKalb*
Janicki, Stanley Florian	*MdP*		*	†	*Chicago*
Janssen, Elmer Theodore	*Com*	*99*	*		*Sterling*
Jeffries, John H	*LAS*		*	†	*Lerna*
Jeude, Mrs. Edward Arthur	***Mus sp***			**†**	***St. Louis, Missouri***
Jennett, Harold Patrick	***EE***	***64***		**†**	***Streator***
Jensen, Anna Magdalene	*Law*		*	†	*Dixon*
Jensen, Myrtle Ruth	*LAS*	*33*	*	†	*Chicago*
Jessen, Virgil T	*Agr*	*32½*	*		*Alto Pass*
Jeude, Edward Arthur	*ChE*		*	†	*St. Louis, Missouri*
Jirka, Frank Joseph	*EE*		*	†	*Chicago*
Jochum, Julia	*SS*				*Marion*
Johns, Evelyn Gordon	*HSLAS*	*116*	*	†	*Danville*
Johns, Jesse Ray	*Chem*		*	†	*Rockford*
Johnson, Archie	*Agr*	*18*	*	†	*Mattoon*
Johnson, Armer Clark	*ME*	*29*	*	†	*Rockford*
Johnson, Arno Charles	*EE*	*20*	*	†	*Donovan*
Johnson, August A	***MdP***			**†**	***Salt Lake City, Utah***
Johnson, Bruce Ward	*ME*		*	†	*Rockford*
Johnson, Charles Baynard	*Com*		*	†	*Rockford*
Johnson, Edwin Reynolds	*Com*	*69*	*	†	*Springfield*
Johnson, Ethan Allen	*EE*		*	†	*Kankakee*
Johnson, Florence Bairstow	*LAS*	*34*	*	†	*Waukegan*
Johnson, Floyd Henning	*Com*	*103*	*	†	*St. Charles*
Johnson, Harold Urban	*LAS*		*	†	*Gibson City*
Johnson, Harry Edward	*ME*	*37*	*	†	*Omaha, Nebraska*
Johnson, Herbert Earl	*Agr*		*	†	*Denver, Colorado*
Johnson, John Raven	*Chem*	*54*	*	†	*Chicago*
Johnson, John Robert	*LAS*	*64*	*	†	*Decatur*
Johnson, Joseph Benjamin	*Agr*	*91*	*	†	*Harrisburg*
Johnson, Lena May	*Lib*		*	†	*Hudson, Michigan*
Johnson, Mildred	*HSLAS*		*	†	*Danville*
Johnson, Paul LaForest	*EE*		*	†	*Wichita, Kansas*
Johnson, Ralph Benjamin	*ME*	*75*	*	†	*Joliet*
Johnson, Reuben Harold	*Arch*		*		*Chicago*
Johnson, Richard Henderson	*Com*	*64*	*	†	*Danville*
Johnson, Roy Ruyle	*Agr*	*14*	*		*Paris*
Johnson, Theodore William	*AE*	*11*	*	†	*Chicago*
Johnson, Walter Harris	*EE*		*	†	*Chicago*
Johnson, Warren MacIntyre	*Agr*	*55*	*	†	*St. Louis, Missouri*
Johnston, Amzi Armstrong	*Agr*		*		*Byron*
Johnston, Bess J	*Lib*		*	†	*Minneapolis, Kansas*
Johnston, Clarence Lee	*Agr*		*	†	*Champaign*
Johnston, Harold Boomer	*LAS (SS)*	*59½*	*	†	*Champaign*
Johnston, Hazen Henry	*Com*	*33*	*	†	*Fort Wayne, Indiana*
Johnston, James Martin	*SS*	*131*			*Chapel Hill, North Carolina*
Johnston, Lillian Ruth	*HSLAS*	*99*	*		*Champaign*
Johnston, Pauline	*LAS*	*58*	*	†	*Alton*
Jones, Arthur Pembrook	*MdP*		*	†	*Bradford*
Jones, Asa William Peter	*Agr*		*	†	*Monmouth*
Jones, Bernicelyn Fishback	*LAS*	*33*	*	†	*Urbana*
Jones, Bertha Marie, A.B., 1911	*SS*	*144½*			*Champaign*
Jones, Earl Jesse	*Com*	*98*	*	†	*Gilbert, Iowa*
Jones, Eleanor Ruth	*Lib*		*	†	*Terre Haute, Indiana*
Jones, Frances Beulah, B.S., 1917	*SS*	*134½*			*Champaign*
Jones, Helen Louise	*LAS*		*	†	*Centralia*
Jones, Henry Hollberg	*MSE*		*		*Windsor*
Jones, John Paul	*Com*	*25*	*		*Kokomo, Indiana*
Jones, Leland Burns	*LAS*	*27*	*	†	*Douglas, Arizona*
Jones, Mack Marquis	*EE*	*110*	*	†	*Tonkawa, Oklahoma*
Jones, Marvel Armorel	*LAS*	*51*	*	†	*Urbana*
Jones, Norman Hugh	*Com*		*	†	*Omaha, Nebraska*
Jones, Ora Lucille	*LAS*		*	†	*Gilbert, Iowa*
Jones, Richard Lee	*Law*		*		*Cincinnati, Ohio*
Jones, Sarah Lulu	*HSAgr*	*36*	*	†	*Urbana*
Jones, Trevor Leslie	*Agr*	*69*	*	†	*Chenoa*
Jones, Valentine Austin	*Chem*		*	†	*Buffalo, New York*
Jones, Vera Gretchen	*LAS*	*31*	*	†	*Urbana*
Jones, Vivian Myfanwy	*LAS*	*32*	*	†	*Aurora*
Jones, Walter Earl	*Com*	*31*	*		*Ridgefarm*
Jones, William Joseph	*Com*	*65*	*	†	*Elgin*
Jones, William Robert	*SS*	*75*			*Kirkland*
Jordan, Emily Kathryn	*LAS*	*60*	*	†	*Carlinville*
Jordan, Harold Emery	*Com*		*	†	*Chicago*
Jorgensen, Rufus Inglebert	*AE*	*28*	*		*Green Bay, Wisconsin*
Jorstad, Louis Helmar	*LAS*		*	†	*Morris*
Joslyn, Gladys Irene	*HSLAS*	*62*	*	†	*Marengo*
Judd, Elizabeth Gladys	*LAS (SS)*	*100*	*	†	*Urbana*

Judd, Irene Averill	LAS		*		Madison Heights, Virginia
Juline, Carl	Arch	32	*	†	Des Moines, Iowa
Junqueira, Alvaro, Jr.	RCE		*	†	Parana, Brazil
Jurgens, Hilsie Elsie	LAS (SS)	8	*	†	Savanna
Kadyk, David James	Law	67	*	†	Fulton
Kaehler, Oscar Henry	EE	31	*	†	Chicago
Kaempfer, Fred William	Com	33	*	†	Chicago
Kahler, Laura	LAS	30	*	†	Belvidere
Kalivoda, Joseph John	ME	108	*	†	Chicago
Kalthoff, Frederick Caspar	AE	99	*	†	Chicago
Kammermann, Clarence	Law		*	†	Forrest
Kammermann, Hermina	LAS		*	†	Forrest
Kamradt, Esther Mabel	Mus (SS)		*	†	Sadorus
Kaney, John Henry	Agr		*	†	German Valley
Kanis, Hendrik Ambrosius Jan	RME		*	†	Kampen, Holland
Karkow, Conrad Hansen	Law	28	*		Chicago
Karr, Mae Seymour	LAS	31	*	†	Seymour
Katanik, Isadore	EE		*		Indianapolis, Indiana
Katterjohn, George William, Jr.	CerE		*	†	Paducah, Kentucky
Kaufmann, Ralph Jennings	SS	8			Massillon, Ohio
Kaufman, Wilford Edward	SS	8			Massillon, Ohio
Kayser, Alfred Charles	CE	50	*		Des Plaines
Kayser, Clarence Samuel	AE	107	*	†	Decatur
Keagy, Abraham Reuel	ME	130	*		Urbana
Keal, Iva Mae	HSLAS		*		Arcola
Keehner, Clarence Bernhard	Com	33	*	†	Jerseyville
Kelley, Kent Kenneth	EE		*		Carrollton
Keen, Victor	Law		*	†	Pueblo, Colorado
Keepers, Floyd Willard	Agr	65	*		Mazon
Keepers, Lloyd William	Agr	68	*		Mazon
Keiffer, Lawrence Raymond	EE	71	*	†	Robinson
Keiser, Frank Martin	MdP		*	†	Murphysboro
Keith, Emma Genevieve	LAS	98	*	†	Hinckley
Keith, Margaret	LAS	59	*		Lockport
Keller, Russel Calvan	Com		*	†	Tolono
Kelley, Edith Maurine	LAS	94	*	†	Camp Point
Kelley, Iva	LAS	96	*	†	Urbana
Kellogg, Wilbur Fisher	ME	31	*	†	Marshall
Kelly, Henry Eli	CE	108	*	†	Charleston
Kelly, Inez Juanita	HSLAS		*	†	Greenup
Kelly, John Francis	MdP		*	†	Vincennes, Indiana
Kelly, John Thomas	ME	109	*	†	Oak Park
Kelly, Margaret Agnes	SS	16			Vandalia
Kelly, Paul Brown	Com	32	*	†	Mattoon
Kelsey, Willard Wahl	**Com**			†	**Sterling**
Kemler, Robert Lynch	EE	35	*		Elgin
Kemp, Eleanor	**Lib**			†	**Chicago**
Kendall, Curtis Patterson	Com		*	†	Louisville, Kentucky
Kendall, Harry Brookes	Com		*	†	Louisville, Kentucky
Kennedy, Emily Jane	LAS	32	*	†	Morrison
Kennedy, Marguerite	LAS	67	*	†	Morrison
Kennedy, Robert Edwin	SS				Urbana
Kennedy, Thomas Eugene	Com	33	*	†	Aurora
Kennelley, Griffith Sidney	CerE	78	*	†	Joliet
Kenney, Alice Veronica	LAS		*	†	Chicago
Kenney, Wendell Lyons	EE	37	*	†	Champaign
Kenny, Marion Katheryne	HSAgr	65	*	†	Champaign
Kent, Clifford P	Com	30	*	†	Olney
Kent, Ileene Margaret	Mus		*	†	Wauconda
Kent, Paul Fraser	CE	94½	*	†	Gridley
Kent, Richard Eugene	Mus		*	†	Urbana
Kenworthy, Anna Jane	LAS	32	*	†	Neoga
Kepler, Kate Susan	Lib		*	†	Ashland, Wisconsin
Kerns, Maris Charles, Jr.	Com		*	†	Moline
Kerns, Edward Lincoln	Com	19	*		Moline
Kerns, Martha	SS	6			Arcola
Kerr, Edward Grant	CerE		*		New Galilee, Pennsylvania
Kerr, Harvey Van Ansall	Agr		*		Mallard
Kerrins, Joseph Arthur	Com		*	†	Chatsworth
Kershaw, Glenwood Haigh	ME	33	*	†	Kankakee
Kershner, William Owen	Arch		*	†	Bloomington
Kessinger, Mildred	LAS	85½	*	†	Carlinville
Ketelhut, William Herman	**EE**	**62**		†	**South Haven, Michigan**
Ketzler, Adolph	Agr		*	†	Chicago
Keyser, Ford Isaiah	CE		*	†	Plymouth, Indiana
Kibler, Clarence Troit	Agr		*	†	Streator
Kidd, Lilace Mazoe	SS	119¾			Astoria
Kilbride, Edward Robert	Agr	59	*	†	Springfield
Kile, Billye	SS	47			Chicago
Kiley, Leo Robert	AE		*		Chicago
Killefer, Raymond Colonius	LAS	31	*	†	Mattoon
Kilpatrick, George Harrington	LAS		*	†	Fairfield, Iowa
Kilpatrick, Ralph Sidney	Com	72	*		Elmwood
Kimball, Frank Sherman	Chem (SS)	93	*	†	Rockford
Kimman, John William	Agr	58	*	†	Chicago
Kimmelshue, William Maurice	Agr	70	*		Manteno

Kiner, Howard Dickens	Law	105	*	†	Geneseo
Kiner, Verne Bardwell	Com	35	*	†	Marseilles
King, Edna Marion	Mus		*	†	Montclair, New Jersey
King, Erdman Wilfred	Com		*		Oak Park
King, Merrill Barnett	SS	45½			Bridgeport
King, Norman Hoyt	Com		*	†	Wilmette
King, Philip Gregory	EE		*	†	Glencoe
Kingery, John David	Com	24½	*	†	Chadwick
Kingsley, Lester Harris	Agr	34	*		Chicago
Kinnare, Robert Edward	ME	38	*	†	Chicago
Kinsey, Esther Eloisa	LAS		*	†	Orlwein, Iowa
Kinsey, William Putnam	ME		*		St. Louis, Missouri
Kirby, Nelle Almeda	Mus		*	†	Eureka
Kirchhofer, Emma Esther	Com	50	*	†	Kansas City, Missouri
Kirk, Emily Adalene	Mus		*		Chillicothe
Kirk, Ewing Leavitte	Com	27½	*	†	Chillicothe
Kirkland, Robert Dudley	Com	34	*		Urbana
Kirkpatrick, Iva Mary	SS	7			Roseville
Kirkpatrick, Thomas Everett	Agr	80	*		Clayton
Kirner, Walter Raymond	ChE (SS)	113½	*		Chicago
Kirwan, Cecile Anne	LAS		*	†	Champaign
Kirwan, Nora Godsell	Mus		*		Champaign
Kiser, Helen Mynette, A.B., 1917	SS	131½			Champaign
Kissinger, Donald Kenneth	Com	31	*	†	Bradford
Kittinger, Ellen Louise	HSLAS		*	†	Alton
Klamser, Harry William	Agr		*	†	Aurora
Klank, Frances Grace	Lib	163	*	†	Champaign
Kleckner, George Malburn	Com	33	*	†	Freeport
Kleder, George Madison, Jr.	Com		*	†	Marion, Indiana
Klein, John Leo	Com	106	*	†	Omaha, Nebraska
Klein, Monica A	LAS (SS)	37	*	†	Pana
Klemmedson, Arthur Erick	Agr	106¾	*		Colorado Springs, Colorado
Klemmedson, Gunnar Sigesmund	Agr	105½	*	†	Colorado Springs, Colorado
Klenk, Fred	MSE	69	*	†	Philadelphia, Pennsylvania
Kline, Alice Harper	HSLAS	62	*	†	Huntington, Indiana
Kline, Arthur LaVerne	Agr	100	*	†	Chicago
Klink, William Lee	Com	106	*	†	Cerro Gordo
Klophel, Ethel Eliza	SS	7			Danville
Klotzsche, Bayard Taylor	Com	46½	*		Urbana
Klotzsche, Bessie May	LAS (SS)	103	*	†	Urbana
Klotzsche, Eunice Esther	SS	22			Urbana
Knaak, Elfrieda Grace	LAS		*	†	Deerfield
Knapheide, Douglas Merle	MdP		*		Quincy
Knapheide, Mildred	LAS	32	*	†	Quincy
Knappenberger, John Meredith	Com	126½	*	†	Kansas City, Missouri
Kneeshaw, Mary Jane	HSAgr	98	*	†	Niles, Michigan
Knight, Ewart B	Agr	106	*	†	Chicago
Knight, Galen Victor	Com	69	*	†	Urbana
Kobayashi, Kenichiro	EE	27	*		Tokyo, Japan
Koch, Edna Elizabeth	HSLAS		*	†	Urbana
Koch, George Washington	Com	30	*	†	Davenport, Iowa
Koehler, Glenn	EE	117	*	†	Van Wert, Ohio
Koehler, Oscar Henry	EE	31		†	Chicago
Koepke, Frank Henry Paul	EE	55	*	†	Chicago
Koepke, Herman Frank	CE	109	*	†	Chicago
Kohl, Gerald Samuel	Com		*	†	Centralia
Kohl, Hilda	LAS	49	*	†	Venice
Kohl, Rowena Agnes	LAS	92	*	†	Centralia
Kohler, Clarence Edward	ME		*	†	Oak Park
Kohn, Walter Clarence Albert	Com		*	†	Chicago
Kohner, Edwin Morton	Com	31	*	†	Chicago
Kolb, Merle Arthur	ME	107	*	†	Oak Park
Komrosky, Morris Louis	Arch	35	*	†	Gary, Indiana
Koo, Shun	RCE	83	*	†	China
Kopf, Edith Alice	SS				Maywood
Kopke, Frederick Thomas	LAS	1	*	†	Pueblo, Colorado
Kopp, William Kenneth	Com	17	*	†	Chicago
Koptik, Ernest Andrew	LAS	27	*	†	Cicero
Koupal, Elsa Emily	LAS		*	†	Crown Point, Indiana
Koupal, Helen Marie	LAS		*	†	Crown Point, Indiana
Koupal, Walter George	ChE	67	*	†	Crown Point, Indiana
Krozlowski, Frank	ChE		*	†	Chicago
Krabbe, Newton John	LAS		*	†	Champaign
Kraeckmann, Walter Ernest Louis	Agr	63	*		Chicago
Kraft, Reynold Rudolph	MinE	115	*	†	Oak Park
Krahn, Walter Frank	ME		*	†	Kewanee
Kral, Albert Alva, Jr.	EE	50	*	†	Chicago
Kramer, Charles Henry	AE	36	*	†	Alton
Kramer, Erwin Albert	ME	16	*		Chicago
Kramer, Max William	LAS		*	†	East St. Louis
Krametbauer, Irma Theresa	LAS	62	*	†	Chicago
Krannert, Victor Louis	Com	72½	*	†	Chicago
Krase, Norman William	ChE	107	*		Chicago
Kratz, Ethel G, A.B., 1910	Lib		*	†	Champaign
Krauel, Philip Leone	ME	118	*	†	Champaign
Kraut, Isador	ChE		*		Chicago

Krauter, Ethel Bertha	*LAS*	*82*	* †	*Chicago*
KreaSan, Shirley Genevieve	*Mus*	*73*	* †	*Champaign*
Kreider, Paul Gates	*LAS*	*82*	* †	*Springfield*
Kreidler, Chester Jamison	*Com*	*105*	* †	*Oak Park*
Krelstein, Bernard S	*Com*	*12*	* †	*Chicago*
Krieg, Amelia, A.B., 1917	*Lib*	*141*	* †	*Oak Park*
Krieger, William Enoch	*Com*	*67*	* †	*Peoria*
Kroeschell, Roy Sittig	*ME*	*102*	* †	*Chicago*
Krueger, Harold Arthur	*SS*			*Wausau, Wisconsin*
Krueger, Howard Andrew	*ME*		* †	*Blue Island*
Kruger, Theodore	*ME*	*35½*	* †	*Peoria*
Krumm, George August	*LAS*		* †	*Chicago*
Krupar, Charles	*LAS*	*104*	* †	*Cicero*
Krupka, George Frank	*Law*		* †	*Chicago*
Kuch, Mildred Carolyn	*LAS*	*31*	* †	*Clinton*
Kuczaj, Stephen Andrew	*Agr*		* †	*Harvey*
Kuechler, Ernest Charles	*Agr*	*42*	*	*Homer*
Kuehl, Elsie Elvira	*LAS*	*33*	* †	*Edwardsville*
Kugler, Martha	*HSLAS*	*30*	* †	*Plano*
Kuhl, Franklin	*Com*	*25*	*	*Springfield*
Kuhn, Mrs. Ella Mae	*LAS*		*	*Culver, Kansas*
Kuhn, Herman George	*AE*		* †	*Tiffin, Ohio*
Kunz, John Oscar	*Law*		* †	*Chicago*
Kupperman, Solomon Jack	*CE*	*59*	* †	*Chicago*
Kurt, Mary Annetta	*HSLAS*	*65*	* †	*Champaign*
Kurz, Rudolph Ferdinand	*MdP*		* †	*Trenton*
Kussmaul, Jasper Henry	*ChE*		* †	*Hammond, Indiana*
Kyger, Roy Jay	*SS*	*26⅔*		*Danville*
Laatz, Ernest Charles	*Agr*	*23*	* †	*Marseilles*
LaBier, Clarence Russell	*MdP*	*35*	* †	*Terre Haute, Indiana*
Lacey, Clyde Manning	*Com*		* †	*Elgin*
Lacey, George Robert	*Agr*		*	*Elwood*
Lacey, Marguerite Helen	*LAS*	*32*	* †	*Elwood*
Ladd, Winslow Curtis	*Agr*	*18*	*	*Taylorville*
Ladehoff, Arthur Detlef	*CE*	*107*	* †	*Clinton, Iowa*
LaFollette, Robert Roy	*Agr*	*15*	*	*Thorntown, Indiana*
Lager, Eric Willard	*ME*	*35*	* †	*Chicago*
Laible, Russell James	*Agr*	*68*	* †	*Freeport*
Laing, Guerdon Dana	*LAS*	*30*	*	*Belvidere*
Lalor, Foster Mitchell	*LAS*	*58*	* †	*Franklin Park*
Lamb, Flora Ethelyn	***LAS sp***		**†**	***Abingdon***
Lamb, John Jr.	*Agr*	*101½*	*	*Worden*
Lambert, Robert Wayne	*Agr*	*28*	* †	*Rushville*
Lambert, Ward Lewis	*SS*	*13*		*Crawfordsville, Indiana*
Lambroff, Gregory Vassileff	*EE*	*109*	* †	*Madison*
Lampe, Ellis Carl	*EE*		* †	*Van Wert, Ohio*
Lamport, Leonard Rollings	***EE***	***14***	**†**	***Chicago***
Lancaster, Allen H	*SS*	*135½*		*Ridgefarm*
Lander, Ruth Esther	*LAS*	*29*	* †	*Alfred, Maine*
Landesman, Ruth	*LAS*		* †	*Minneapolis, Minnesota*
Landon, George	*Law (SS)*	*100½*	* †	*Chicago*
Landstrom, Roy William	*Agr*	*67*	* †	*Chicago*
Lane, Mrs. Lizzie Baldwin	*SS*			*Hamilton*
Lang, Alvin Leonard	*Agr*	*71*	* †	*Urbana*
Langdon, Paul Eugene	*CE*	*36*	* †	*Chicago*
Lanphear, Albert Louis	*ME*		*	*Hinsdale*
Lanthorn, Melvin Vinton	*SS*	*2*		***Lincoln, Ohio***
Laphane, Miriam Margaret	*HSLAS*		* †	*Dixon*
Larimer, Floyd Conway	*Com*	*33*	* †	*Oskaloosa, Iowa*
Larry, Etta Cynthia	*HSLAS*		*	*Champaign*
Larson, Bertha	*Mus*		*	*Oxford, Nebraska*
Larson, Carl Clarence	*ChE*	*103*	* †	*Mazon*
Larson, Edward	*ChE*	*27*	* †	*Galva*
Latch, Hester Ellen	*LAS*		*	*Hammond*
LaTeer, Angie	*HSLAS*	*105*	* †	*Paxton*
Latham, Hollis Culver	*CE*		* †	*Sandwich*
Latham, Wendell Abbott	*LAS*		*	*Sandwich*
Lathrop, John Sherman	*CerE*	*61*	*	*Chicago*
Lattner, Ulysses Simpson	*ME*	*73*	* †	*Rock Island*
Lau, Theodore	*RCE*	*71*	*	*Chicago*
Lauder, Frederick Houlton	*LAS (SS)*	*90*	* †	*Monmouth*
Lauer, James Othmar	*SS*	*7*		*Peru*
Lauphit, Tse	*Agr (SS)*	*114½*	*	*Shanghai, China*
Lauritzen, Marion Marie	*LAS*	*98*	* †	*Chicago Heights*
Lause, Charles Joseph	*Agr*		* †	*Dayton, Ohio*
Lauterbach, Walter Wesley	*LAS (SS)*	*26*	* †	*Bushnell*
Laval, Marcelle Vere	*LAS*	*50*	* †	*Wilmette*
Law, Veronica Mary	*LAS*		*	*East St. Louis*
Lawrence, Charles Henry	*Agr*	*99*	* †	*Woodstock*
Laws, Mary Josephine	*SS*	*8½*		*Kirkwood*
Lawson, Sarah Adolfina	*Lib*		* †	***Rock Island***
Lawton, Chauncey Wenzloff	*Law*	*57½*	*	*Yankton, South Dakota*
Leach, Paul J, B.S., 1916	*Mus (SS)*		* †	*Macomb*
Leach, Roscoe	*SS*			*Bone Gap*
Leake, Harold Chapman	*CE*		* †	*Amboy*
Leavitt, Maurice	*EE*	*2*	* †	*Chicago*

Ledesnia, Jose Jamili	*CE*		*	*Philippine Islands*
Lee, Fannie	*HSLAS*	*65*	* †	*Reynolds*
Lee, Florence	*HSLAS*		* †	*Reynolds*
Lee, Ping-Fun	*ME*	*133*	*	*Hong Kong, China*
Lee, Sea Fong	*Com*		* †	*Hong Kong, China*
Lee, Tao Nan	*Com (SS)*	*117*	*	*Nanking, China*
Leedle, Jessie Miriam	*LAS*	*69*	* †	*West Chicago*
Leeming, James Whitney	*EE*	*25¾*	* †	*Chicago*
Leeming, Mason Starring	*LAS*		* †	*Chicago*
Leeming, Tom	*Law*	*87*	* †	*Chicago*
Lette, Marion Elaine	*LAS*	*66*	* †	*Chicago*
Leggett, Wilkie Wright, A.B., 1916	*SS*	*139½*		*McComb, Mississippi*
Leggitt, Fred William	*Agr (SS)*	*118*	*	*Paragould, Arkansas*
Lehman, Lloyd Wilbur	*Com*		* †	*Herscher*
Lehman, Ruth Townsend	*HSLAS*	*101*	* †	*Millington*
Lehmann, Gustav, Jr.	*ChE*		* †	*Chicago*
Leibson, Jacob Sam	*CerE*	*72*	* †	*Chicago*
Leichsenring, Jane Marie	*HSLAS*	*68*	* †	*Winnetka*
Leinard, Kenneth Earl	*CE*	*35*	* †	*Bryan, Ohio*
Leiser, Reuben	*Com*		* †	*Herscher*
Leist, Claude	*LAS (SS)*	*103*	* †	*Paris*
Leistra, Peter Anton	*SS*	*3½*		*Rock Valley, Iowa*
Leitch, Neil McLean	*MdP*	*36½*	* †	*LaFayette*
Leitzbach, Elizabeth	*LAS*	*106*	* †	*Fairmount*
Lekberg, Clarence Emanuel	*Agr*		*	*Chicago*
Lemenager, Earl Henry	*LAS*		* †	*Ashkum*
Lemenager, William Arthur	*Com*		* †	*Ashkum*
Lemke, Charles Henry	*EE*		*	*Menominee, Michigan*
Lemmers, Erwin Guy	*Com*		* †	*Chicago*
Lentz, Leo Francis	*Agr*	*27*	* †	*Anna*
Leonard, Veda Fern	*LAS*	*65*	* †	*Rantoul*
Lesemann, Ralph Frederick	*LAS*		* †	*Nashville*
Lester, Juanita Laura	*LAS*		* †	*Dalton City*
Lett, Hamlet Harrison	*Agr*	*101*	* †	*Washington, Indiana*
Levy, Beatrice Esther	*LAS*	*65*	* †	*Streator*
Levy, Henry K	***EE***		**†**	***Chicago***
Lewis, Alden George	*Chcm*	*34*	* †	*Green Bay, Wisconsin*
Lewis, Ardenia Moree	*HSAgr*	*26*	* †	*Camp Point*
Lewis, Henry Fletcher	*Law*	*15*	* †	*Murphysboro*
Lewis, Kenneth S	*MdP*	*33*	* †	*Wheaton*
Lewis, Lester Roy	*Com*		* †	*Chicago*
Lewis, Lillian	*LAS*		* †	*Hoopeston*
Lewis, William Henry	*Com*	*95*	* †	*Granite City*
Lewitan, Leo	*ME (SS)*	*53*	* †	*Chicago*
Liang, Ping	*Com*	*68*	* †	*Washington, D. C.*
Libman, Anna	*LAS*	*102*	* †	*Chicago*
Lichtenberger, Cleo	*Lib*	*8*	* †	*Decatur*
Lichtenwalter, Clayton Gurney	*ChE*		*	*Joliet*
Lichtmann, Samuel Arthur	*Arch*	*36*	* †	*Chicago*
Leiber, Ruth Evaline	*LAS*	*99*	* †	*Winetka*
Lieberman, Emmanuel Harold	*EE*	*15*	* †	*Cleveland, Ohio*
Lies, Arthur Nicholas	*ME*	*36*	* †	*Chicago*
Lifvendahl, Richard Axel	***MdP***		**†**	***Chicago***
Liggitt, Charles Chesterfield	*Agr*		*	*Normal*
Lilienthal, Samuel	*CE*	*72*	* †	*Chicago*
Lilley, Robert W	*ME*	*36*	* †	*Aurora*
Lilly, Franklin Panell	*LAS*		*	*Chicago*
Lin, Kuan Hua	*Com*		* †	*Mukden, China*
Lindahl, Florence Elnora	*LAS*	*68*	* †	*Wayne*
Lindahl, Leon Kenneth	*Com*		* †	*Elgin*
Lindeberg, George Leonard	*Arch*	*120*	* †	*Chicago*
Lindenmeyer, Joseph	*Agr*		*	*Lake Forest*
Linder, Roscoe George	*SS*	*13*		*Chandlerville*
Lindholm, Karin Josephine	*Agr (SS)*	*60*	* †	*Elgin*
Lindley, Bertrand Hollowell	*LAS*		* †	*Cairo*
Lindley, James Ralph	*EE*		* †	*Marshall*
Lindley, Mabel	***HSLAS***		**†**	***Hutsonville***
Lindsay, Lawrence Jay	*Agr*	*26½*	* †	*Chicago*
Ling, Feng Chi	*ME*		* †	*West Gate, China*
Link, Rue Showalter	*Com*	*46*	*	*Paris*
Linkins, Ralph Harlan, A.M., 1914	*SS*			*Jacksonville*
Linton, Hazel Marie	*Mus*	*40*	*	*LeRoy*
Littrell, Donald Bennett	*Arch*	*33½*	* †	*Colfax, New Mexico*
Liu, Nai Yu	*Com*	*103½*	* †	*Washington, D. C.*
Livingston, Mrs. Kate	*SS*	*7½*		*Water Valley, Mississippi*
Livingston, Thomas Morgan	*Agr*	*36*	* †	*Minonk*
Llewellyn, Harry Corson	*Agr*	*68*	* †	*LaGrange*
Llewellyn, Hazel Irene	*LAS*	*95*	* †	*Prophetstown*
Llewellyn, Marie Edith	*LAS*	*32*	* †	*Prophetstown*
Llewellyn, Pauline	*HSAgr*	*36*	*	*LaGrange*
Lloyd, Lawrence Duncan	*LAS*	*29*	* †	*Catlin*
Lloyd, Sergins Hopkins	*Agr*	*45*	*	*Genoa*
Locke, George Ferguson	*Agr*	*78*	*	*LaSalle*
Lockwood, Isabel Kathryn	*LAS*	*101*	* †	*Chicago*
Lockwood, William Fred	*EE*	*35*	* †	*Kankakee*
Loeb, Hamilton Moritz	*Com*		* †	*Chicago*

Lofquist, Gerald Albert	*ME*	*31*	*	†	*Chicago*
Logan, Emily Washington	*LAS*	*31*	*		*Kirkwood, Missouri*
Logue, Burton Worley	*Chem*	*55½*	*	†	*Nashville, Tennessee*
Long, Ping Kwan	*Agr*	*74*	*	†	*Hong Kong, China*
Long, Ruth Ida	*LAS*	*99*	*	†	*Watseka*
Loomis, Agnes Brooks	*LAS*		*	†	*Chicago*
Loomis, Donald Byrns	*Agr*		*	†	*Galva*
Loomis, Emily Fidelia	*HSLAS*	*34*	*	†	*Chicago*
Looney, Julian Lawrence	*ChE*		*	†	*Minden, Louisiana*
Lopez, Leonor	*LAS (SS)*	*17*	*	†	*Champaign*
Lord, Mrs. Arthur H., A.B., 1911	*SS*				*La Harpe*
Lord, Philip Shumway	*Com*		*	†	*Evanston*
Lorentz, Robert William	*Arch*	*18*	*	†	*Chicago*
Losee, Donald Maynard	*ChE*	*29*	*	†	*Chicago*
Losee, Isabelle Martha	*LAS*		*	†	*Chicago*
Louis, Helen	*LAS*		*	†	*Danville*
Lourash, Percy David	*Agr (SS)*	*31*	*		*Champaign*
Love, Beryl Franklin	*LAS*	*96*	*	†	*Danville*
Love, Harry Halme	*LAS*	*87*	*		*Newton*
Love, Irene Leora	*LAS*	*31*	*	†	*Urbana*
Lovejoy, Andrew Curtis	*ME*		*		*Roscoe*
Lovejoy, Charles Ernest, Jr.	*Com*	*33*	*	†	*Chicago*
Lovell, Beatrice Babcock	*LAS*		*	†	*Gibson City*
Lovett, Robert Fillmore	*ChE*		*	†	*Urbana*
Lovett, Temple Raymond	*Agr*		*	†	*Urbana*
Lowe, Chinghsi Hiram	*Agr*		*	†	*Chihli, China*
Lowe, Cyrus Ching Chung	*Com*	*98½*	*	†	*Washington, D. C.*
Lowe, Lucy	*Mus*	*13*	*	†	*Urbana*
Lowery, Thomas Edwin	*Agr*	*63*	*		*Springfield*
Lowitz, Jack	*Com*	*33*	*	†	*Chicago*
Lowery, Bess, A.B , 1917	*Lib*		*	†	*Lead, South Dakota*
Lu, Shou-Cheng	*LAS (SS)*	*74*	*	†	*Washington, D. C.*
Ludlow, Helen	*LAS*	*96*	*	†	*Paxton*
Ludwig, Roland Howard	*Agr*		*	†	*Chicago*
Luer, Harry Arthur	*Agr*		*	†	*Alton*
Luhrsen, Augusta Emma	*Mus*		*		*Sadorus*
Lui, Ping Ho	*ME (SS)*	*37*	*	†	*Hordan, China*
Lull, Julian Richard	***ME***			**†**	***Oak Park***
Lumley, Arlene	*LAS*	*60*	*	†	*Urbana*
Lumley, Dorothy Elizabeth	*HSLAS*		*	†	*Urbana*
Lummis, Joseph Gray	*Com*		*	†	*Quincy*
Lundbeck, Oreld Rudolph	*ME*	*27*	*	†	*Oak Park*
Lundgren, Arnold Alinder	*CE*	*73*	*	†	*Rockford*
Lundgren, Floyd Edward	*EE*	*108*	*	†	*Lostant*
Luster, Julian Jay	*Law*		*	†	*Chicago*
Luther, Harry Holton	*Law*		*	†	*Urbana*
Luther, Ida Louise	*Mus*		*		*Champaign*
Luther, Wilhelmina Caroline	*LAS*	*46*	*	†	*Champaign*
Lutton, Annabelle	***Mus sp***			**†**	***Gilman***
Lutz, Zoe	*MdP*	*31*	*	†	*Hindlay*
Lyman, Bernard Anthony	*LAS (SS)*	*27*	*	†	*Champaign*
Lyman, Mary Agnes Adelaide	*LAS (SS)*	*106*	*	†	*Champaign*
Lynch, Helen Charlotte	*LAS*		*	†	*Mattoon*
Lynch, Margaret	*HSLAS (SS)*	*102*	*	†	*Urbana*
Lynn, Ernest Lee	*LAS*	*34*	*		*Washington, D. C.*
Lyon, Carlos Elmendorph	*Com*	*65*	*	†	*Decatur*
Lyon, Eunice Taylor	*LAS*	*32*	*		*Dubuque, Iowa*
Lyons, Lillian Helen	*HSAgr (SS)*	*37½*	*	†	*Urbana*
Lyons, Oscar Ivan	*ME*	*109*	*	†	*Hoopeston*
Lytle, Merwyn Quincy	*Com*		*	†	*Adams*
McAnally, Marian Pace	*LAS*		*	†	*Mt. Vernon*
McBride, Howard Inman	*ME*	*52*	*		*Chicago*
McBroom, Frank Leslie	*LAS*		*	†	*Woodstock*
McCabe, Alma Louise	*SS*	*4*			*Mound City*
McCabe, James Russell	*ChE*		*	†	*Des Moines, Iowa*
McCain, Theopphilus Parvin	*MdP*		*		*Arcola*
McCallister, Flavia Cliff	*LAS*	*30*	*	†	*Paris*
McCallister, Roy Ivan	*Com (SS)*	*84½*	*		*Carmi*
McCammon, Martha	*LAS*	*100*	*	†	*Urbana*
McCarthy, Cecelia Mary	*LAS*		*	†	*Champaign*
McCaskey, Clyde	***LAS sp***				***Philadelphia***
McCaskill, Lyman Clawson	*Agr*	*82*	*	†	*Taylorville*
McCaskill, Valden Maurice	*Agr*	*50*	*		*Taylorville*
McCaslin, Gladys Bernice	*LAS*	*34*	*	†	*Louisville, Kentucky*
McCaull, Mary Edna	*LAS*		*	†	*Kansas City, Missouri*
McCay, Clive Maine	*LAS*	*34*	*	†	*Champaign*
McClelland, Adele Burton	*LAS*		*	†	*Clinton*
McClelland, Ralph Lester	*ME*		*	†	*Western Springs*
McClure, Adelle Elizabeth	*Mus*	*115*	*	†	*Bloomington*
McClure, Earl Leroy	*EE*		*	†	*Van Wert, Ohio*
McCluskey, Thomas Frank	***Agr***			**†**	***Owaneco***
McCollister, Isaac Frost	*ME*	*54*	*	†	*Jerseyville*
McConnell, Helen Evelyn	*LAS*	*31*	*	†	*Champaign*
McConnell, Marvin Greer	*LAS*	*107*	*	†	*Chicago*
McCorkle, James Bright	*ME*		*		*Oxford, Mississippi*
McCormack, Leo Glen	*SS*				*Bone Gap*

McCormick, Harriet Eunice	***LAS***		†	***Peoria***
McCormick, Peter James	*Arch*	*31*	* †	*Sterling*
McCray, Marian Verla	*HSLAS*	*27*	* †	*Fithian*
McCreary, William Curtis	*ChE*	*27*	* †	*Chicago*
McCreery, Mary Frances	*HSLAS*		* †	*Rushville*
McCreery, Vashti	*LAS*	*112*	*	*Benton*
McCreery, Virginia Roitger	*HSLAS*		* †	*Rushville*
McCullough Earl Morrow	*CE*		*	*Princeton, Indiana*
McCullough, Helen E, A.B., 1917	*Arch*		*	*Urbana*
McCullough, Margaret	*LAS*		* †	*Urbana*
McCullough, Mary Elizabeth	*LAS*	*96*	* †	*Urbana*
McCullough, Otto Melvin	*ME*		* †	*Toulon*
McDavid, John Solomon	*ME*		* †	*Hiltsboro*
McDermott, Owen Paul	*Com*		* †	*Des Moines, Iowa*
McDonald, Bessie	***Com***		†	***Chicago***
McDonald, Georgia Helen	*HSLAS*	*97½*	* †	*Lerna*
McDonald, Harlan Fred	*Com*	*34*	* †	*Mattoon*
McDonald, Thomas Chesley Francis	*Agr*		* †	*Chicago*
McDonough, Cleotis Maude	*LAS*		* †	*Milford*
McDougall, Bertha Galie	*HSLAS*	*66*	* †	*Petersburg*
McDougle, Ella Moore	*Agr*		* †	*Humbolt*
McDowell, John Keeney	*Agr*	*37*	* †	*Kankakee*
McDowell, Merritt Dewey	*Chem (SS)*	*29*	* †	*Centralia*
McEldowney, William Earle	*Com*	*37*	* †	*Chicago Heights*
McElfresh, Arthur Edward	*Com*	*71*	* †	*Westfield*
McElhiney, Helen Catherine	*LAS*	*31*	* †	*Kenney*
McElhiney, Ruth	*LAS*	*96*	* †	*Kenney*
McElroy, William Edgar	*Com*	*67*	* †	*Arenzville*
McElvain, James William	*Agr*	*23½*	*	*Auburn*
McEuen, Miner Albert	*ChE*		* †	*Chicago*
McEvers, Ernest	*EE*	*107*	*	*Montezuma*
McEwen, Cecil Ray	*ME*		* †	*McComb*
McGaughy, Julia Ellen	***LAS sp***		†	***Aledo***
McGill, David Webster	***EE***	***63***	†	***Watseka***
MacGillivray, John Henry	*Agr*		* †	*Urbana*
MacGillivray, Malcolm Edwards	*LAS*	*90*	* †	*Urbana*
McGinnis, Cecilia Marie	*LAS*		* †	*Kankakee*
McGinnis, Helen Anastasia	*LAS (SS)*	*104*		*Chicago*
McGinnis, Lester	*EE*	*14*	* †	*Kankakee*
McGrath, Wilson Thomas	*Agr*	*111½*	*	*Chicago*
McGraw, Katherine Leslie	*Lib*	*33*	* †	*Urbana*
McGregor, Charles Duncan	***Com***		†	***Oskaloosa, Iowa***
McGregor, John Lancaster	*ME*	*109*	* †	*Chicago*
MacGregor, Malcolm Douglas	*AE*		* †	*Washta, Iowa*
McGuire, Donald David	*EE*		* †	*Aurora*
McHenry, Mrs. Beulah Denison	*SS*	*2*		*Conway, Arkansas*
McHenry, Martin Josiah, M.S., 1913	*SS*			*Glendale, California*
McIntire, Leo Glenn	*Com*	*32*	* †	*Potomac*
McIntire, Mary Minerva	*SS*			*Urbana*
McIntyre, Genevieve	*LAS*		* †	*Hanover*
McIntyre, Robson Duncan	*Com*		* †	*Wilmington*
McKamy, James Andrew	*Com*		* †	*Mattoon*
McKay, Alexander	*ME*	*160*	*	*Almira, Washington*
McKay, Ernest Gladstone	*Agr*	*61*	*	*Evanston*
McKay, Lewis Pound	*Chem*		* †	*Evanston*
McKee, Mary Annette	*HSLAS*	*95*	* †	*Kankakee*
McKeever, Robert Emmett	*EE*	*108*	* †	*Jackson, Missouri*
McKelvy, Earle Lloyd	*LAS*		* †	*Waterville, Kansas*
McKinney, Lilabel	*SS*	*137½*		*Champaign*
McKinley, Robert Prince	*Com*	*33*	* †	*Mt. Carmel*
McKinney, John Keryl	*Com*		* †	*Clinton*
McKinstry, Elizabeth Bennett	*LAS*		* †	*Grant Park*
McKittrick, Chester Earl	*LAS*		*	*Billings, Montana*
McKnight, Elda Marie	*HSLAS*	*94*	* †	*Hiawatha, Kansas*
McKown, Harry Charles, A.M., 1917	*SS*			*Gibson*
McLaughlin, George Southwell	*EE*	*67½*	* †	*Pocatello, Idaho*
McLaughlin, Gerald Ransome	*LAS*		* †	*Chicago*
McLaughlin, Maud Katharine, A.M., 1917	*Lib*		* †	*Galesburg*
McLaughlin, Walter Wylie	*Agr*	*95½*	*	*Cartter*
MacLean, Angus Donald	*Com*	*30*	* †	*New Albany, Indiana*
McLee, Edward Brown	*AE*	*105*	* †	*Rockford*
McMahon, Edward Lawrence	*LAS*	*29½*	* †	*Lacon*
McMillan, Louis William	*Agr*		* †	*Macomb*
McMurray, Fannie Marie	*LAS*	*62*	* †	*Divernan*
McNair, Bernice Bower	*LAS*	*120*	*	*Tolono*
McNally, Andrew	*MdP*		* †	*Chicago*
McNally, Teresa	*SS*	*32½*		*Pueblo, Colorado*
McNaughton, Clayton Archibald	*Com (SS)*	*65½*	* †	*Urbana*
McNeff, Marian Ellen	*SS*	*6½*		*Timewell*
McNeff, Zelma Alice	*SS*	*6½*		*Timewell*
McNeill, Angeline	*Lib*	*33*	* †	*Galena*
McNish, David Thornley	*Agr*	*74*	* †	*North Crystal Lake*
McNutt, Wilma Lea	*HSLAS*	*63*	*	*Lacon*
McQueen, Harold George	*Arch*		* †	*Missouri Valley, Iowa*
McQuinn, Ralph Tolivar	*LAS*	*24*	* †	*Salem*
McRobert, James Joseph	*Com*		* †	*Hebron*

McWilliams, Marie Lindsey	*Mus (SS)*	*124*	*	†	*Urbana*
Machovec, Edward Paul	*RME*	*109½*	*	†	*Kansas City, Missouri*
Mackin, Paul James	*CE*	*104*	*	†	*Omaha, Nebraska*
Maddox, Lyman Newton	*Com*		*	†	*Wingate, Indiana*
Madison, Lawrence Chester	*Agr*	*77*	*	†	*Urbana*
Magers, Elizabeth Julia	*HSLAS*	*65*	*	†	*Marquette, Michigan*
Maginnis, Etha Mabel	*SS*	*12*			*Abingdon*
Magnuson, Dell Martin	*Chem*		*	†	*Chicago*
Maguire, Mary Josephine	*SS*	*25½*			*Alton*
Mahoney, Elmer Merle	*SS*				*Burket, Indiana*
Main, Russell Wallace	*Com*	*28*	*		*Upper Sandusky, Ohio*
Makutchan, Clyde	*CE*	*137*	*		*Buda*
Malapert, Ernest Louis	*Com*	*76*	*		*Osage City, Kansas*
Malcolmson, David Krause	*MinE*	*47*	*		*Kansas City, Missouri*
Malecki, John Daniel	***ChE***			**†**	***Oak Park***
Malkmus, William	*Com*		*	†	*Kansas City, Missouri*
Mallers, John Bernard	*AE (SS)*	*60*	*		*Chicago*
Mallory, Francis Bolton	*Law*	*64*	*		*Batavia*
Mallory, Richard Henderson	*Agr*	*101*	*		*Batavia*
Malsbary, Grace Estella	*HSLAS (SS)*	*99*	*	†	*Darlington, Indiana*
Malsbury, Marshall Raymond	*Agr*	*31½*	*	†	*Virden*
Mander, Mabel Louise	*LAS*		*	†	*Woodstock*
Mangold, Priscilla Alden	***LAS***			**†**	***Anna***
Manguson, Maude Beatrice	*Mus*	*68*	*	†	*Osco*
Manley, John Charles	*EE (SS)*	*71½*	*	†	*Chicago*
Manley, M Maude	*LAS*		*	†	*Caro, Michigan*
Manley, Myra Frances	*LAS*	*97*	*	†	*Champaign*
Manley, Verna Adaline	*Mus*	*10*	*	†	*Champaign*
Mann, Clair Tamblyn	*Agr*		*	†	*Manteno*
Mann, Donovan Voorhees	*Com*		*	†	*Urbana*
Mann, Edna Francis	*HSLAS (SS)*	*81½*	*	†	*Oak Park*
Mann, Mary Fidelia	*HSLAS*		*	†	*Sullivan, Indiana*
Mann, Ruth Emily	*LAS*		*	†	*Chicago*
Mann, Shirley	*HSLAS*	*30*	*	†	*Kankakee*
Mann, William Alfred	*MdP*	*32*	*	†	*Wilmette*
Manny, Ida Lillian	***LAS***	***61***		**†**	***Portland, Oregon***
Manny, Theodore Bergen	*Agr*	*72*	*	†	*Chicago*
Manspeaker, Caroline Elizabeth	*Com (SS)*	*31*	*		*Champaign*
March, Elmer Clifton	*ChE*	*48½*	*	†	*Carrollton*
Marcott, Margaret Anna	*SS*	*77¼*			*Decatur*
Marks, Anna Edith	*LAS*	*65*	*	†	*Dixon*
Marks, Maude Irene	*LAS*	*100*	*	†	*Plymouth, Indiana*
Marquiss, Earle Eugene	*Com*		*		*Monticello*
Marrock, Milton	*ChE*	*37*	*		*Chicago*
Marsh, Bessie Ellen	*HSAgr*	*31*	*	†	*Champaign*
Marshall, Elsmere John	*ChE*	*22*	*	†	*Washington, D. C.*
Marshall, Frank James	***Agr***				***Stockbridge, New York***
Marsteller, Dudley Leonard	*Com*	*72*	*	†	*Roanoke, Virginia*
Martell, Edmund Anthony	*REE*	*105*	*	†	*Murphysboro*
Martens, Margaret Louise	*HSLAS*	*98*	*	†	*Anchor*
Martin, Ada North	***Mus sp***				***Madison, Wisconsin***
Martin, Charles Blake	*Com*	*63*	*		*Mt. Carmel*
Martin, Charles Homer	*Agr*		*		*Mt. Zion*
Martin, Frank Albert	*ChE*	*97½*	*	†	*Chicago*
Martin, Mrs. Nettie Eileen	*SS*				*Carmi*
Martino, James Frank	*Com*		*	†	*Dallas, Texas*
Martins, Djalma Varella	*Chem (SS)*	*5*	*	†	*Sao Paulo, Brazil*
Marx, Arthur William Kuhs	*MSE*	*112*	*		*St. Louis, Missouri*
Marx, Elmer Edward	*Com*	*6*	*	†	*St. Louis, Missouri*
Marx, Elmer William	*Arch*		*	†	*Chicago*
Mason, Earl Greenfield	*CE*		*	†	*Astoria*
Mason, James Bryant	*Com*		*	†	*Urbana*
Mason, Lee	*Agr*	*70*	*	†	*New Richmond, Indiana*
Mason, Rodney Starkweather	*LAS*		*	†	*Highland Park*
Massey, Henry Laurens	*Com*	*64*	*	†	*Little Rock, Arkansas*
Massock, Richard Gilbert	*Law*	*33*	*	†	*Illiopolis*
Mathews, Alvin Gugeler	*Com*		*	†	*Danville, Iowa*
Matoba, George Hajime	*MinE*	*115*	*	†	*Kioto-fu, Japan*
Matson, Harry Emil	*ME*	*132*	*		*Chicago*
Matsuda, Sensuke	*Agr*		*	†	*New York City*
Matsunawa, Shinta	*RME*		*		*New York City*
Matthews, Albert Otto	*Chem*	*104½*	*	†	*Washington, D. C.*
Matthews, Miss Jim P	*SS*				*Horatio, Arkansas*
Matuszewicz, Veronica Catherine	*LAS*	*91*	*	†	*Minonk*
Maung, Tharrawaddy Maung	*ChE*	*31*	*	†	*Rangoon, Burma*
Maurer, Charles Brand	*LAS (SS)*	*32*	*	†	*Champaign*
Maurer, Frederick Gottlieb	*Com*	*33*	*	†	*Chicago*
Mautner, Erwin William	*ChE (SS)*	*98*	*	†	*Chicago*
Mautz, William Plaford	*Agr*	*57*	*	†	*St. Elmo*
Maxey, Helen Jane	*LAS*	*60*	*		*Mt. Vernon*
Maxwell, Clyde Everett	*Agr*	*59¾*	*	†	*Indianapolis, Indiana*
Maxwell, Elsie May	***HSLAS***			**†**	***Alexandria, Indiana***
Maxwell, McKinley Vern	*Agr*	*64*	*		*Flat Rock*
Maxwell, Raymond Jones	*Com*	*98*	*	†	*Paris*
May, Clifford Blaine, B.S., 1917	*SS*	*134*			*Kirkland*
Mayhue, Don Waters	*EE*		*	†	*Palestine*

Maynard, Elsdon L	*Com*	*34*	*	*Chicago*
Mayo, Thomas Bolton	*Chem*	*93*	* †	*Alton*
Mead, Alice Jane	*SS*	*8*		*Decatur*
Meade, Ehrma Pauline	*LAS (SS)*	*39*	* †	*Champaign*
Means, Walker Wilson	*CE*	*78*	* †	*Urbana*
Meder, John O'Connor	*Com*	*5*	* †	*Chicago*
Medlar, Henrietta	*HSLAS*		* †	*Omaha, Nebraska*
Meek, Frederick James	*ME*	*64*	*	*Marissa*
Meek, Harold Tecumseh	*LAS*	*103½*	* †	*Peoria*
Meek, James Perry	*Agr*		* †	*Peoria*
Meeks, Rosamond Effie	*SS*	*6½*		*Kinmundy*
Meier, Harold Irving	*LAS*	*73*	* †	*Marissa*
Meier, William Karl	*Agr*		* †	*East St. Louis*
Melangton, Philip Rolland	*Com*	*36*	* †	*Chicago*
Melin, Florence Lucile	*LAS*		*	*Urbana*
Melin, Ralph Norton	*Agr*	*29*	* †	*Chicago*
Melton, Presley	*SS*			*Urbana*
Meltzer, Hyman	*Chem*		* †	*Bayonne, New Jersey*
Meltzer, Louis	*Chem*		* †	*Bayonne, New Jersey*
Meneley, Olive Myrtle	*SS*			*Champaign*
Mercer, Charles Franklin	*CE*	*116*	* †	*Kansas City, Missouri*
Mercer, Ralph Dilworth	*Agr*	*104*	* †	*Vermont*
Merchant, Althea Amaryllis	*LAS*	*32*	* †	*St. Louis, Missouri*
Merker, Mrs. Bell Whiting	*SS*	*2*		*McHenry*
Merker, David Felmley	*Agr (SS)*	*70*	*	*Belleville*
Merriam, Theodore Howard	*Agr*		* †	*LaGrange*
Merrills, Virginia	*LAS*	*77*	* †	*Belleville*
Metcalf, Deane Shively	*Com*	*30*	*	*Illiopolis*
Metz, Edna Mary	*LAS*	*34*	* †	*Tolono*
Metzler, Ralph Oliver	*Com*	*68*	* †	*Champaign*
Mewhirter, Jannett Lou	*HSAgr*	*98*	* †	*Yorkville*
Mewhirter, Ruth Ellen	*HSAgr*		* †	*Yorkville*
Meyer, Alfred Herman Ludwig	*LAS*	*30*	* †	*Venedy*
Meyer, Alfred Werner	*Chem*	*129½*	*	*Chicago*
Meyer, Antoine Ferdinand Ernst	*LAS*	*69*	* †	*Hayti, West Indies*
Meyer, Clarence Charles	*Agr*		* †	*Chicago*
Meyer, Frederick William	*Law*	*31*	* †	*Kansas City, Missouri*
Meyer, George Leo Nicholas	*ME*	*11*	* †	*Milwaukee, Wisconsin*
Meyer, Harold Engler	*Com*	*25*	* †	*Havana*
Meyer, Irma Louise	*LAS*	*98*	* †	*LaPorte, Indiana*
Meyer, Walter Rae	*LAS*	*15*	* †	*Springfield*
Meyerhoff, Howard Augustus	***LAS***			***New York City***
Meyers, Fred William, Jr.	*Com*		* †	*Wheaton*
Meyers, Marguerite	*HSLAS*	*67*	* †	*Belvidere*
Meyers, Mildred Irene	*LAS*	*08*	* †	*Pekin*
Mezek, Frank William	*CE*		* †	*Chicago*
Micenheimer, Russell	*Agr*	*26*	*	*Taylorville*
Michael, Beatrice Anne	*LAS*		* †	*Champaign*
Michael, Richard William	***Agr***	***36***	**†**	***Champaign***
Michael, William Manford	*Law*	*28*	* †	*Champaign*
Michel, Eric Herman	*EE*		* †	*Germany*
Michels, Eva Mabel	*SS*	*15*		*Albion*
Middleton, Edward Elias	*EE*		* †	*Chicago*
Middleton, Errol Bathurst	***LAS***		**†**	***Victoria, Texas***
Middleton, Julian Gilbert	*Arch*	*110*	* †	*Pomona, California*
Mighell, Albert Thomas	*Agr*		* †	*Aurora*
Milemore, Paul Harold	***Agr***		**†**	***Danville***
Miles, Evelyn Ada	*HSLAS*	*110*	* †	*LaGrange*
Miles, Margaret Leslie	*LAS*	*33*	*	*LaGrange*
Millar, Ethel Key	*Lib*		* †	*Little Rock, Arkansas*
Miller, Alta Marie	*SS*	*17*		*Nokomis*
Miller, Anna May	*LAS*	*65*	* †	*Champaign*
Miller, Archie Roscoe	*EE*	*107*	* †	*Mahomet*
Miller, Arno Hugo	*LAS*		* †	*Kinmundy*
Miller, Carl Roscoe	*LAS*	*25½*	* †	*Mulberry Grove*
Miller, Claire Evelyn	*HSLAS*	*79*	* †	*Negaunee, Michigan*
Miller, Dean Albert	*CE*	*111*	* †	*Canton*
Miller, Donald Joseph	*ME*	*5*	* †	*Vincennes, Indiana*
Miller, Earl Alonzo	*Agr*		* †	*Dundee*
Miller, Evelyn Jeanette	*SS*	*6*		*Pawnee*
Miller, Flossie Anna	*Mus*		*	*Villa Grove*
Miller, Francis H	*Com*	*102*	*	*Chicago*
Miller, Hazel Cloah	*Mus*	*27*	* †	*Champaign*
Miller, Joseph Gilman	*Com*	*64½*	* †	*Chicago*
Miller, Karl Hansen	*ME*		* †	*Green Bay, Wisconsin*
Miller, Katherine Fay	*LAS*	*30*	* †	*Centralia*
Miller, Kenneth William	*EE*	*76*	* †	*Decatur*
Miller, Lewis Elbert	*ME*	*26*	* †	*Compton*
Miller, Lloyd Burgart	*AE*	*29*	* †	*Chicago*
Miller, Margaret Josephine	*SS*			*Decatur*
Miller, Milton Joy	*Law*		* †	*Chicago*
Miller, Oswald Kenneth	*MdP*		*	*Kinmundy*
Miller, Pearl Iris	*SS*	*5½*		*Belleville*
Miller, Sanford Curtis	*LAS*	*51*	* †	*Casey*
Miller, Virginia Agnes	*LAS*	*66*	* †	*Galva*
Miller, Walter Porter	*Agr*	*107*	* †	*Hanna City*

Miller, Wilbur Glenn	AE	36	* †	Jerseyville
Milliken, Douglas	Agr	33	*	Walnut
Milliken, Walter Beale	MdP		* †	Little Rock, Arkansas
Mills, Beulah Ozeta	**Mus sp**		**†**	**Urbana**
Mills, Kenneth Entz	LAS		* †	Chillicothe
Mills, Lucius Erwin	EE		* †	Garden City, Minnesota
Mills, Martha Mendenhall	HSLAS	45	* †	Marion, Indiana
Mills, Morton Joseph	LAS		* †	Chicago
Mills, Myron Epler	Agr		* †	Virginia
Mills, Ralph Joseph	**Com**		**†**	**Oak Park**
Millspaugh, Mable Augusta	LAS		* †	Keokuk, Iowa
Milner, George Ellsworth	Com		* †	Plymouth, Indiana
Miner, Helen Nellora	LAS	58	* †	Adair
Miner, William	SS	83		Mt. Vernon
Minervino, Yoav	RCE		*	Sao Paulo, Brazil
Mink, Dwight L	Com	126	* †	Galva
Minks, Freda Heyer	**LAS**	**35**	**†**	**Dewey**
Mirayeas, Peter George	LAS	14	* †	Collinas, Greece
Mischler, Clara Helen	SS	20½		Springfield
Mischler, Lillian	SS	27½		Springfield
Misener, Glenn Edgar	ME	36	* †	Berwyn
Mitchell, Anna Loeama	LAS		* †	Greenup
Mitchell, Donald Richards	Agr	104	* †	Chicago
Mitchell, Edna Pearl	LAS	33	*	Hoopeston
Mitchell, Leonard Osgood	Agr	105	* †	Chicago
Mittelman, Benjamin Eugene	CE	77	* †	Chicago
Mitton, Charles Vaughn	Com		* †	Carbon Cliff
Moberly, Edwin Stuart	Agr	96½	* †	Fallulah, Florida
Mock, Harold Jackson	CE		* †	Chicago
Mohr, Alba Agnes	SS		* †	Beardstown
Mohr, Joseph Sutton	ME	37	* †	Chicago
Mohr, Truman Jack	MdP		* †	Van Wert
Moncrieff, James Weir	CerE	109	* †	Otsego, Michigan
Mongreig, Louis Morgan	Agr	62	*	Stevensville, Michigan
Monier, Nellie Willmina	HSLAS		* †	Bradford
Monninger, Werner Hugo	Com	34	* †	Indianapolis, Indiana
Monohon, Ila E	HSLAS	103	* †	Urbana
Monohon, Irma Naomi	HSLAS	31	* †	Urbana
Monroe, Howard Richardson	ChE		* †	Wheaton
Monser, Paul Coleman	MdP	32¼	* †	Lincoln
Montgomery, Winifred	HSLAS	31	* †	Marseilles
Montooth, Charles Stuart, A.B., 1905	SS			Bradford
Moo, Jen-Yin Menn-fu	SS	65		Honolulu, Hawaii
Mooney, Paul Cullom	Com	21	* †	Philo
Moore, Albert Broply	Law	50	* †	Aurora
Moore, Addison Strong	SS			Maryville, Tennessee
Moore, Allen Ray	LAS	107½	*	Urbana
Moore, Charles Bachman	LAS	71	*	Knoxville, Tennessee
Moore, Dicie Ann	SS	5½		Champaign
Moore, Elva Marie	Mus	29	* †	Urbana
Moore, Eva Elenor	**HSLAS**	**38**	**†**	**Mattoon**
Moore, George Wilkinson	Agr	65	* †	Macomb
Moore, Gladys Vivianne	LAS	21	* †	Champaign
Moore, Helen	Mus		* †	Urbana
Moore, Miriam Ashworth	Com	28	*	Danville
Moore, Sara Elizabeth	LAS	99	* †	Danville
Moore, Walter Raymond	Agr	34	* †	Wataga
Moore, Wayne Kenneth	Agr	103½	* †	Chicago
Moore, William Abner	Law	54	* †	Urbana
Morales, Maxime Eladio	LAS	26	* †	**Lima, Peru**
Mordue, Ralph	Com	17½	* †	Chicago
Morey, Clara Adah, A.B., 1917	SS	140		Macomb
Morey, John Frederick	SS	5		Vandalia
Morgan, Gwendolyn Marguerite	Mus		*	Champaign
Morgan, Irving Bancroft	ChE		* †	Buffalo, New York
Morgan, Willard Amos	Agr		* †	Bone Gap
Morgan, William Ray	CerE	35	* †	Macomb
Morita, Hanyemon	Com	97½	* †	Kisarazu, Japan
Morris, Grace Eleanor	**LAS**		**†**	**Hersman**
Morris, Harold Harrison	Agr	98	*	Clinton
Morris, Mildred Ruth	LAS		* †	Big Rock
Morris, Minnie Ellen	SS	55⅚		Champaign
Morris, Rachel	LAS		* †	Allerton
Morrison, Lauraine Katherine	LAS	33	* †	Joliet
Morrison, Lethe Eleanora	HSLAS (SS)	85	* †	Waterloo
Morrison, Russell Howard	Com	33	* †	Rantoul
Morrow, Cecil Allen	LAS		* †	Clinton
Morrow, Charles Edward	ME	36½	*	Champaign
Morse, Delia Gladys	HSLAS		* †	Harvey
Morse, James Todd	Com		* †	Gifford
Morse, Richard Irving	Agr	52	* †	Olney
Morse, Robert Lay	ME	74	*	Kewanee
Morton, Alfred Hammond	CE	73	* †	Chicago
Morton, Isadore	SS			Chicago
Morton, Richard Edward	Agr		* †	Chicago
Moser, Rosalie Barbara	LAS		* †	Chicago

Moses, Mrs. Carl Alan	*Mus*		*	*Ayer, Massachusetts*
Mosgrove, Charles Adamson	*Agr*	*35½*	* †	*Monticello*
Mosher, Clyde Manley	*Agr*		* †	*Cuba*
Mosher, Leona Aimee Dorothy	*LAS*		* †	*Nova Scotia*
Mosier, Henry David	*Com*	*23*	* †	*Urbana*
Mosiman, Kenton McKinley	*Com*		* †	*South Bend, Indiana*
Moss, Alida Helen	*LAS*	*98*	* †	*Urbana*
Moss, Eugenia	*LAS*		* †	*Mt. Vernon*
Moss, John Redmon	*Agr*	*33*	* †	*Paris*
Mosser, Aaron Ran	*LAS*		*	*Allentown, Pennsylvania*
Mott, Florence McElroy	*HSAgr*	*31*	*	*St. Louis, Missouri*
Motulsky, Cyril Harold	*Com*		*	*Dubuque, Iowa*
Moulden, Clara Berenice	*SS*	*69½*		*Tuscola*
Moulton, George Foss	*Agr*	*74*	* †	*Chicago*
Mourning, Esther Elizabeth	*HSLAS*		* †	*Rushville*
Mowery, William Byson	*LAS*		* †	*Danville*
Mueller, Alfred Martin	*EE* (*SS*)	*38*	* †	*Sycamore*
Mueller, Richard Henry	*Agr*	*64*	* †	*Chicago*
Mueller, Walter Rudolph	*AE*	*73*	* †	*Indianapolis, Indiana*
Mueller, Walter Sack	*LAS*	*28*	* †	*South Bend, Indiana*
Munch, Harriett Miriam	*HSAgr*		* †	*Olney*
Muessel, Richard Adam	*Agr*	*141*	*	*South Bend, Indiana*
Mugge, George Hudson	*Com*		* †	*Harrisburg*
Muhs, Elmer Alfred	*ME*		* †	*Blue Island*
Mulliken, Horace Watson	*Agr*	*56*	*	*Humbolt*
Mullon, Vance Spencer	*LAS*	*15*	* †	*New Orleans, Louisiana*
Mulnix, Emory Schriver	*LAS*		* †	*Lena*
Mumm, Walter John	*Agr*	*65*	* †	*Sidney*
Munce, Bernice Correll	*LAS*	*31*	* †	*Illiopolis*
Muncie, Wendell Stanley	*Chem*	*38*	*	*Danville*
Mundorf, Martin Reuben	*LAS*	*97½*	* †	*Marshall*
Munger, Winifred Grace	*LAS*	*15*	* †	*Chicago*
Munsell, Amel Truman	*Com*	*30*	* †	*Henryetta, Oklahoma*
Munson, Helen	*Mus*		* †	*Arcola*
Munson, Morris George	*Com*	*43*	* †	*Champaign*
Muramoto, David Kitaro	*EE*	*35*	* †	*Chicago*
Murison, Richard V	*AE*	*77*	* †	*Evanston*
Murphy, Bert Kenneth	*Agr*	*34*	*	*Stockton*
Murphy, George Thomas	*MdP*	*31*	* †	*Chicago*
Murphy, Joseph P	*SS*	*7*		*St. Louis, Missouri*
Murray, Edna Bernodine	*LAS*	*47½*	* †	*Rantoul*
Murray, Gerald Edson	*Com*	*106*	*	*Rensselaer, Indiana*
Murray, Grace Mildred, A.B., 1917	***Mus***		†	***Champaign***
Murray, Lenore Claire	*LAS*	*78*	* †	*Rantoul*
Murray, Leonard Ely	*AE*	*73*	* †	*Springfield, Massachusetts*
Murrill, Forrest Luther	*Com*		* †	*Flat River, Missouri*
Musselman, Morris McNeil	*LAS*		* †	*Oak Park*
Muth, Eleanor Elizabeth	*HSAgr*	*61*	* †	*Letitz, Pennsylvania*
Myer, Ernest	*Agr*		* †	*Chicago*
Myers, Delle Matilda	*Agr*	*41*	* †	*Sperling, Manitoba, Canada*
Myers, Mrs. Ella Burns	*LAS*	*63*	* †	*Grand Rapids*
Myers Frances Helen	*Com*		* †	*Champaign*
Myers, Harold Noyes	*Agr*	*34*	* †	*Mendon*
Myers, Morris Rosenthal	*Com*	*18*	* †	*Springfield*
Myers, William Henry	*MdP*	*33*	* †	*Coal Valley*
Naden, Gladys Leora	*HSLAS*	*101*	* †	*Newark*
Nading, Marie Louise	*HSLAS*		* †	*Yorkville*
Nagel, Charles August	*EE*	*79*	* †	*St. Louis, Missouri*
Nakanishi, Shimaji, A.B., 1915	*EE*		* †	*Aichiken, Japan*
Nance, Clement Arter	*Agr*		* †	*Chicago*
Naramore, Milton Orlando, Jr.	*EE*		* †	*Evanston*
Nardi, Julian	*ME*	*4*	* †	*Chicago*
Nardi, Victor Gaige	*Com*		* †	*Chicago*
Nash, George Leslie	***MdP***		†	***Galena***
Natho, Karl Rufus	*Agr*		* †	*Danville*
Nay, John Willard	*Com*		* †	*Chicago*
Neal, Elliott Jay	*ME*		* †	*Chicago*
Needham, Carrie Isabel, A.B., 1912	*Mus*		* †	*Urbana*
Needham, Catherine	*LAS*	*99*	* †	*Urbana*
Needham, Marguerita	*LAS*	*30*	* †	*Urbana*
Neely, Charles Bertis	*LAS*		* †	*Spokane, Washington*
Neff, Harold Alpha	*LAS* (*SS*)	*74*	* †	*Rochelle*
Neiman, Leroy Joseph	*CE*		* †	*Chicago*
Nelson, Agnes Louise	*LAS*	*57½*	* †	*Champaign*
Nelson, Dale Avery	*Com*		* †	*Donovan*
Nelson, Elmer Lawrence	*SS*	*82*		*Chicago*
Nelson, Esther Pauline	*LAS* (*SS*)	*80*	* †	*Barry*
Nelson, Hilding Franklin	*Com*		*	*Rockford*
Nelson, John	*AE*	*17*	* †	*LaGrange*
Nelson, John Merritt	*LAS*		* †	*Chicago*
Nelson, Louis Melvin	*Com*		* †	*Chicago*
Nelson, Marguerite Richmond	*LAS sp*	*6*	* †	*Urbana*
Nelson, Martha Alieda	*LAS*		* †	*Plano*
Nelson, Paul Scofield	*ME*	*67*	* †	*Chicago*
Nelson, Raymond Edward	*LAS*	*34*	* †	*Chicago*
Nelson, Rudolph Stokes	*LAS*	*35*	* †	*Rockford*

Nelson, Severina Elaine	*LAS*	*107*	* †	*Oak Park*
Nelson, Wendell Phillips	*EE*		* †	*Champaign*
Nesbitt, Carl Wesley	*Chem*	*106*	*	*Macomb*
Nesheff, George	*ME*	*90*	* †	*Bulgaria*
Neuber, Anna Louise	*HSLAS (SS)*	*32*	* †	*Litchfield*
Neumann, Morton Gross	*ChE*		* †	*Chicago*
Neville, Olive Myrtle	*HSLAS*	*100*	*	*Kewanee*
New, Edward Funston	*SS*	*5½*		*Chicago*
Newburn, Gene Edgar	*Agr*	*64*	*	*Hoopeston*
Newburn, Harold James	*Com*	*83*	*	*Hoopeston*
Newburn, Iva Florence	*HSLAS*	*101*	* †	*Urbana*
Newcomb, Edwin Elldwood	*Arch*	*99*	*	*Burlington, Kansas*
Newcomb, Russel Edward	*ME*	*82*	* †	*Scranton, Pennsylvania*
Newcomb, Walter Haines	*Chem*	*124*	* †	*Foosland*
Newell, Constance	*LAS (SS)*	*23*	* †	*Urbana*
Newell, Josephine	*LAS (SS)*	*69*	* †	*Urbana*
Newland, George Milton	*Arch*	*25*	* †	*Cedar Rapids, Iowa*
Newlin, John Ewart	*LAS*	*24*	*	*Robinson*
Newlin, Walter Allen	*Agr*	*109*	* †	*Annapolis*
Newlin, Willard Bogue	*LAS*	*97*	*	*Indianapolis, Indiana*
Newlove, Ivadel Elsie	*HSAgr*		* †	*Urbana*
Newman, Howard Eugene	*Com*		* †	*Champaign*
Newman, Louise Marie	*LAS*		* †	*Champaign*
Newman, Sidney	*ChE*	*57*	* †	*Chicago*
Newport, Willard Leslie	*Agr*		* †	*Hillsboro*
Newport, William Wesley	*Agr*		*	*Hillsboro*
Newton, Frank Wilson	*Agr*	*34*	* †	*Burlington, Iowa*
Newton, Grover Cleveland	*SS*	*8*		*Metamora*
Newton, Helen Charlotte	***HSLAS***	***71***	**†**	***Fairfield***
Newton, Lillie Mae	*LAS*		* †	*Champaign*
Newton, Marshall Everett	*LAS*		* †	*Rock Island*
Newton, Robert Keith	*EE*	*105½*	* †	*Jerseyville*
Nichols, Clayton Schirm	*Arch*	*32*	*	*Omaha, Nebraska*
Nichols, Dorothy Elizabeth	*LAS*		*	*Chicago*
Nichols, Fannie Bell	*SS*	*4*		*Kansas City, Missouri*
Nichols, Gladys	*Lib*	*30*	*	*Westerville, Ohio*
Nichols, Pauline Angeline	*Com*		* †	*Momence*
Nichols, Sidney Warren	*Com*	*32*	*	*Des Moines, Iowa*
Nicholson, Carl Benezette	*AE*		* †	*Chicago*
Nickel, Walter John	*SS*	*5*		*Sheboygan, Wisconsin*
Nickoley, Emma Rhoads	*Lib*		* †	*Ottawa*
Nicolet, Clara Burt	*LAS*		* †	*Urbana*
Niebergall, Philip Alfred	*Com*	*68*	* †	*New Orleans, Louisiana*
Niehaus, John Mark	*LAS*	*30½*	* †	*Peoria*
Nieman, Earl	*EE*	*20*	*	*Winchester*
Nightingale, Eugene Richard	*EE*	*73*	*	*Champaign*
Nilson, Edla Dorothea	*LAS*		* †	*Chicago*
Nilson, Ethel Birdella	*LAS*	*55*	* †	*Chicago*
Noble, Merle Emmet	*Law*	*61*	* †	*Crawfordsville, Indiana*
Noel, Elsie Mae	*LAS*	*69*	* †	*Saunemin*
Noelle, William Lincoln	*CE*		*	*Chicago*
Nolan, John Timothy	*CE*	*114*	* †	*Gilbert, Minnesota*
Nolan, Thomas James	*EE*		* †	*Morris*
Nolen, Harry Fern	*ME*	*37*	* †	*Urbana*
Noone, Byron Mortimer	*SS*	*88*		*Haworth, New Jersey*
Norman, Absalom Willis	*SS*			*Culpeper, Virginia*
Norman, Helen Grant	*LAS*		* †	*Champaign*
Norman, Margaret Angeline	*LAS*		* †	*Champaign*
Norman, Milton Eugene	*CE*	*72*	* †	*Chicago*
North, Alma Marie	*Com*	*32*	* †	*Rockford*
North, Page Lane	*Agr*	*80*	*	*Chicago*
Norton, Arlo	*Agr*	*68*	* †	*Bloomington*
Norton, Bertha Lucile	*HSAgr*		* †	*Champaign*
Nothwang, Roswell Standish	***LAS***		**†**	***Little Rock, Arkansas***
Novak, Joseph Frank	*CE*	*35*	* †	*Chicago*
Novotny, Vincent Thomas	*SS*	*5½*		*Amber, Oklahoma*
Nowlen, Mary Elizabeth	*HSLAS*		*	*Morrison*
Noxon, George Albert	*ME*		* †	*St. Louis, Missouri*
Null, Miriam Ellen	*HSLAS*	*66*	* †	*Colchester*
Nussle, Lucile Bianca Catherine	*HSLAS*		* †	*Walnut*
Nutt, Bertram Vere	*ME*	*27*	*	*Moline*
Nyberg, Emma Josephine	***LAS sp***		**†**	***Urbana***
Nyberg, Florence Anna	*SS*	*4*		*Urbana*
Nyberg, Nettie Irene	*Com*		* †	*Urbana*
Nystrom, Alfred	*Agr*		* †	*Galesburg*
Oakes, Ella Baxter	*HSAgr*	*112*	*	*Laura*
Oakes, James Lowell	*LAS*	*22*	*	*Champaign*
Oberne, George Struble	*ME*	*96*	* †	*Chicago*
Oblander, Helen Elizabeth	*HSLAS*	*58*	* †	*Bushnell*
O'Brien, Florence Mary	*SS*	*7*		*Chicago*
O'Brien, Louis Joseph	*Com*		* †	*Danville*
Ochoa, Jorge Vizcaino	*EE (SS)*	*46*	* †	*Guadalajara, Mexico*
O'Connor, Roger Russell	*Agr*		* †	*Chicago*
Odell, Anna Laura	*LAS (SS)*	*85*	* †	*West Salem*
Odendahl, Horace William	*LAS*		* †	*Des Moines, Iowa*
Odenkirk, Zellie Coy	*EE*	*51½*	* †	*Auburn, Indiana*

O'Connell, Frank Harvey	L A S		* -	Lemont.
Oertli, Eda	Lit		* -	Minot, North Dakota
Ogg, John Harvey	M E	310	* -	Buffalo, New York
Oglevee, Kathryn Maude	H S Agr	15½	* -	Leon, Iowa
O'Hair, Mildred	L A S		* -	Greencastle, Indiana
Ohrmann, Emma Engelbury	L A S	10	* -	Forest
Oldham, Dwight Brainerd	M E	111	* -	Dallas, Texas
Oldenburg, Thomas	L A S, SC	32	* -	Buffalo, New York
Oliver, Margaret Thompson	Lit		* -	Georgetown, Virginia
Olds, George Samuel	Agr	1	*	LaGrange, Indiana
Olesen, Anna Carrie	H S L A S	51	* -	Highland Park
Olesen, Harold Leslie	E E	907	* -	Highland Park
Olson, Edwin August	L A S		* -	Chicago
Olson, Louie Joseph	Com		* -	Monticello
Olson, Oscar Herman	M E	5	* -	Lockport
Olson, Robert George	M E	907	* -	Chicago
Omansky, Samuel	Arch	30	* -	Chicago
Ondrak, Ambrose Lee	L	1		Chicago
O'Neal, Richard Read	L	6		Washington, Indiana
O'Neil, William George	L	11½		Faribault, Minnesota
Opsahl, Ralph Douglas	Arch	1	* -	Green Bay, Wisconsin
Orne, Edith Anna	H S L A S		*	St. Louis, Missouri
Orland, Fred William	Agr	1	*	Murphysboro
Orr, Harold James	L A S	1	* -	Tulsa, Oklahoma
Orsini, Eugene	Agr sp		*	[illegible], Italy
Osada, Stanislawa Marie	L A S		* -	Chicago
Osborn, Grace Thelma	H S Agr	301	* -	Urbana
Osborn, Elias Willard	Ch E	5½	*	Chicago
Ostrowski, Francis Vincent	L A S		* -	Chicago
Ott, Edward	Com		*	Grand Ridge
Overlees, William Bryan	E E	7	*	Fairfield
Overlund, Wallace Ivar	E E		* -	[illegible]
Owen, Harold Patterson	M E, SC	907½	* -	Chicago
Owen, Howard	Com	32	* -	Villa Grove
Owen, June	L A S	11	* -	McHenry
Owen, Stewart Douglas	L A S	52	* -	Louisville, Kentucky
Owens, Glenn Everett	M E		* -	Battle Creek, Michigan
Pabst, Mary	H S L A S	93	* -	River Forest
Paddock, Priscilla Barton	Com	1	* -	Decatur
Paddock, Richard	L	81		Terre Haute, Indiana
Pagin, Bernard Lewis	M E	5	* -	LaGrange
Page, Gladys	L			Peoria
Paine, Margaret Christina	H S L A S	11	* -	Clinton, Iowa
Paine, John Howard	Com	71	* -	Eagle Grove, Iowa
Paisley, Stella Elizabeth	L A S	32	*	Urbana
Palmer, Mrs. Anna Shattuck, M.L., 1905	Mus		* -	Urbana
Palmer, Grace	Lit		* -	Springfield, Missouri
Pannmeier, Louis Karl	E E	7	* -	[illegible]
Pannmeier, William	Agr		* -	[illegible]
Park, Martha Ann	H S L A S	51	* -	St. Louis, Missouri
Parker, Charles Grosvenor	Arch	111½	*	Chicago
Parker, Emily	L	5		Decatur
Parker, Frances Miriam	Com	52	* -	Madison
Parker, Helen Lucy, B.Mus., 1924	G	103		Champaign
Parkhill, Glen George	Agr		* -	[illegible]
Parks, Catherine Elizabeth, A.B., 19[illegible]	G	10		Du Quoin
Parks, Helen Gwendolyn	Mus	5	* -	Farmington
Parr, Harold Leslie	Arch		* -	Champaign
Parr, Harold Lucian	L A S	309	*	Urbana
Parr, Lewis Marvin	Agr		* -	Odell
Parrington, Mildred	Mus		*	Elgin
Partridge, James Turner	Com		* -	Springfield
Paschal, Albert Robert	Arch	111	* -	Chicago
Pasternak, Thomas	L A S		* -	Kensington
Patterson, Bernice Amber	L	7		Lake
Patterson, Elizabeth Eleanor	Mus	1	* -	Chicago
Patterson, Vida Ruth	L	11½		Sullivan
Pattis, Simon	Com	31	*	East St. Louis
Patton, Audrey Everett	Com		* -	Pittsburg, Kansas
Patton, Joseph Robinson, Jr.	E E		* -	Atlanta
Patton, Lee Moyer	Agr	11	* -	Bridgeport
Paul, Bernice Marie	L A S	7½	* -	Chicago
Paul, Frank Martin	A E	11	*	Lewistown
Paul, Mary Josephine	L	5½		Jerseyville
Paull, Alfred Frederick	Lit		* -	Peoria
Paulson, Egbert Oliver	Agr sp, SC	14	* -	Princeton
Payne, Mildred Laurie	L A S	31	*	Lexington
Payne, John William	L A S		* -	Sedalia, Missouri
Pearce, Benjamin Franklin	Agr, SC		* -	Urbana
Pearce, Mrs. Eva	Mus		* -	Urbana
Peale, Margaret	H S L A S	5	* -	Belvidere
Pearce, Marvin James	Ch E	3	* -	Johnston City
Pearlman, Jennie	L A S		* -	Decatur
Pearson, Francis E	M E	111	* -	Chatsworth
Pearson, Leslie	Com		* -	Chicago
Pearson, Robert Miller	Ch E	31	* -	Thorntown, Indiana

Pease, David Ward	*ME*	*36*	*	†	*Chicago*
Peachmann, Henry Charles	*AE*	*50*	*		*Webster Groves, Missouri*
Peck, Frederick Albert	*REE*	*106*	*		*Chicago*
Peifer, Dorothea Catherine	*SS*	*7½*			*Chicago*
Peirce, Vernon Densmore	*ME*		*		*Chicago*
Peirce, Willis McGerald	*ChE*		*	†	*Ridgeway, Pennsylvania*
Peirson, Mary Lucile	*HSLAS*	*99*	*	†	*Murphysboro*
Pelham, Alva Jackson	*LAS*		*	†	*Glen Ellyn*
Pell, Hazel Marie	*HSLAS*	*102*	*	†	*Urbana*
Peltz, Ralph Cheney	*LAS*	*31*	*	†	*Clinton*
Pemberton, Bessie Belle	*SS*	*26*			*Eldorado*
Pendergast, Emly Marie	*SS*	*29½*		†	*Champaign*
Pendergast, Mary Honora, A.B., 1917	*SS*	*149*			*Champaign*
Pendergast, Nelle Marie	*Mus* (SS)	*33*	*	†	*Urbana*
Penhallow, Harry Wentworth	*LAS*	*79½*	*	†	*Chicago*
Penhallow, Lambert Benjamin	*ME*	*109*	*		*Chicago*
Peniston, Oscar J	*LAS*	*21*	*	†	*Dixon*
Perbohner, Robert M	***LAS***			†	***Chicago***
Percival, Lilly Ruth	*HSAgr*	*98*	*	†	*Urbana*
Percival, Stella Rebecca, B.Mus, 1917	*Mus*	*144½*	*	†	*Champaign*
Percival, William Frank	*Com*	*54*	*	†	*Champaign*
Perez, Arce Guillermo	*EE*	*12*	*	†	*Guadalajara, Mexico*
Perkins, Frances Janet	*LAS*	*114½*	*		*Laurel, Mississippi*
Perkins, Harry Horatio	*Com*		*	†	*Genoa*
Perlman, Samuel Charles	*Law sp*	*57*	*		*Chicago*
Perry, Nellie Cora	***Com***			†	***Chicago***
Perry, Robert Ashman	*ME*	*108*	*	†	*Whittier, California*
Persons, Margaret Hazlett	*Com*	*43⅝*	*	†	*Oak Park*
Peterkin, James Troy	*LAS*		*	†	*Dillon, South Carolina*
Peterman, George Raymond	*Arch*	*36*	*		*Kankakee*
Peters, Ivy Celeste	*SS*				*Sandoval*
Peterson, Irving Leonard	*Agr*	*130*	*		*DeKalb*
Peterson, Lawrence Eugene	*CE*	*65*	*	†	*Grand Rapids, Michigan*
Peterson, Lester Carlisle	*LAS*	*35*	*	†	*Champaign*
Peterson, Mabel Elizabeth	*LAS*	*63*	*	†	*Maywood*
Peterson, Maurice Winifield	*Com*		*	†	*Champaign*
Peterson, Sidney LeRoy	*LAS*	*34*	*	†	*Chicago*
Peterson, Silas Carlisle	*Agr*	*76*	*	†	*Herscher*
Petesch, Germer	*LAS*	*69*	*	†	*McHenry*
Pettibone, Mabel Clare	*LAS*		*		*Chicago*
Petty, Raymond Bradshaw	*Com sp*	*27½*	*	†	*Peru, Indiana*
Peyton, Edna	*LAS*	*30*	*	†	*Warsaw*
Pfuderer, William Frederick	*LAS*	*25½*	*	†	*Berwyn*
Phelps, Guy Maurice	*ME*		*		*Kankakee*
Phelps, Mary Edna	*Mus*		*	†	*Lawrenceburg, Kentucky*
Phenicie, Hubert Ellsworth	*Agr*	*33*	*		*Manchester, Iowa*
Phillips, Bernice Irene	*HSLAS*	*115* .	*	†	*Bloomington*
Phillips, Cora Ellis	*SS*				*Sedalia, Missouri*
Phillips, George Williams	*Agr sp*		*	†	*Belvidere*
Phillips, Grace Mildred	*LAS*		*	†	*Elgin*
Phillips, Harriet Muriel	*Agr* (SS)	*81½*	*	†	*Fennville, Michigan*
Phillips, Helen Lucile	*LAS*		*		*Red Oak*
Phillips, Mabel Vienna	*SS*	*6½*			*Bloomfield, Indiana*
Phillips, Ruth	*HSLAS*	*115*	*		*East Cleveland, Ohio*
Phillips, William Loring	*CE*		*	†	*Elgin*
Picken, Ralph Montgomery	*Com*	*67*	*		*Argyle*
Pickens, Louise Milliken	*HSLAS*		*	†	*Ottowa*
Picker, Edna Odessa	*HSLAS*	*67*	*		*Assumption*
Pierce, Arlie	***Mus sp***			†	***Bloomington***
Pickett, Arthur William	*AE*	*115*	*		*Chicago*
Pieper, Arnold Christian	*SS*	*72*			*Chatham*
Pierce, Jessie Evelyn	*Mus*	*25*	*	†	*Urbana*
Pierce, Maurice J	***Com***	***49***		†	***Urbana***
Pierce, Rose Parker	*Lib*		*	†	*Harrison, Ohio*
Pierce, Theodore	*Agr*	*32*	*		*Watseka*
Pierson, Charles Howard	*CE*	*79½*	*	†	*Zion City*
Pierson, Esther	*Lib*		*	†	*Savonburg, Kansas*
Pike, Albert Marvin	*Com*	*31*	*	†	*Aurora*
Pinckard, Harold Recenus	*AE*	*23*	*	†	*Monticello*
Pinheiro, Renato	*SS*	*5*	*	†	*Sao Paulo, Brazil*
Pinheiro, Ruy	*RCE* (SS)	*40*	*	†	*Sao Paulo, Brazil*
Pinkley, George Davison	*LAS*	*25½*	*	†	*Gibson City*
Pinnell, Alma Jean	*HSAgr*	*26*	*	†	*Kansas*
Piper, Edith Nannette	*SS*	*5*			*Chatham*
Plimpton, Hamilton Tew	*Com*		*	†	*Chicago*
Plymale, Betha	*HSLAS*	*95⅔*	*	†	*Dunleith, West Virginia*
Podlesak, Harry George	*ME*	*72*	*	†	*Chicago*
Poehlman, Roland Morton	*Agr*	*33*	*	†	*Morton Grove*
Poehlmann, Walter Gustave	*Agr*	*64*	*	†	*Morton Grove*
Pohlmann, Edward Charles	*ME*	*110*	*	†	*Chicago*
Poirot, Eugene Marcel	*Agr*		*	†	*Belleville*
Polk, Arthur Eugene	*CerE*	*76*	*	†	*Champaign*
Polk, Wesley William	*MSE*	*129½*	*	†	*Champaign*
Polkowski, Anna	*LAS*	*72*	*	†	*Champaign*
Pollock, Leone Ruth	*HSLAS*	*69*	*	†	*Polo*
Pon, John Maynard	***Com***			†	***Chicago***

Ponder, Evelyn Bryson	LAS		*	†	Tuscola
Pooley, Marcus James	**LAS**			**†**	**Carthage, South Dakota**
Pope, Walter Scott	SS	26			Berwyn
Poppove, Racho Petroff	EE	116	*	†	Bulgaria
Porte, Robert Harold	ChE		*	†	Chicago
Porter, Christian Pfeffer	Com		*	†	Olney
Porter, Horatio Allingham	Com		*	†	Gerlan
Porter, Howard Hamilton	Agr	30	*	†	Hume
Porter, Jesse Cartlege	EE		*	†	Martinsville
Porter, Lawrence Eugene	ME		*	†	Dedman, New Mexico
Porter, Margaret Lois	LAS	93	*	†	Gladstone
Porterfield, Hazel Ethel	HSLAS (SS)	39	*	†	Urbana
Postle, George Richardson	Arch	72	*	†	Elgin
Poston, William Irvin	Com	31	*	†	Crawfordsville, Indiana
Potter, Beulah Adelia	HSLAS	25	*	†	Indianapolis, Indiana
Potter, Dorothy Buckman	LAS (SS)	6½	*	†	Arcola
Potter, Inez Coons	SS				Evanston
Potter, Merwin William	ChE	25	*	†	LaFox
Potts, Albert Leroy	LAS (SS)	45	*	†	Honey Bend
Poulsen, Frank Edward	LAS	16	*	†	Chicago
Powell, Albert Lyle	ME	33	*	†	Chicago
Powell, Hazel Florence	SS	24¾			Champaign
Powell, Henry Albert	Agr (SS)	31	*		Birmingham, Alabama
Powell, John Henderson, Jr	LAS	32	*	†	Kansas City, Missouri
Prall, Clifford Francis	AE		*		Trenton, New Jersey
Prante, Beulah Wise	LAS	67	*	†	Quincy
Preble, Robert Curtis	ME (SS)	79	*		Oak Park
Preece, Harry George	Agr sp		*	†	Oak Park
Preece, Rae	LAS	31½	*		Quincy
Prescott, John Shedd	LAS		*	†	Wilmette
Presson, Lola Iris	SS	130½			Champaign
Preston, Selma	LAS		*	†	Grinnell, Iowa
Price, John Theobald	SS	2			Paris, Kentucky
Price, Kenneth Thomas	Arch		*	†	Comanche, Oklahoma
Price, Marion Erenay	HSLAS	87	*	†	Champaign
Price, Northa Ann	LAS		*	†	Abingdon
Prichard, Geneva Gregory	Mus sp		*	†	Lovington
Prichard, Louise Gilman	LAS		*	†	Champaign
Prindiville, Maurice Manning	Com		*		Evanston
Printup, Glenn Hale	Com		*	†	Oak Park
Pritchard, Elliott Alfred	Agr	64	*	†	Aurora
Probst, Edward Eugene	Arch	35	*	†	River Forest
Probst, John Stanley	Agr	34	*	†	Elkhart, Indiana
Proctor, Harrington Lee	MdP		*	†	Rantoul
Proelss, Otto	ChE	69	*	†	Moundsville, West Virginia
Propst, Christy Anderson	EE		*	†	Longview, Texas
Prouty, Eugene Royal	RME		*	†	Ben Avon, Pennsylvania
Pruitt, Charles Herbert	LAS		*	†	Orange, California
Pugh, Cloyd	Agr	31	*	†	Humrick
Pulcipher, Keeler DeWitt	Com	95½	*	†	Centralia
Pulliam, Vernon Donald	**EE**	**36**		**†**	**Fithian**
Pulsipher, Betty Marie	HSAgr	105	*	†	Elmwood
Pulver, Edbert Lyle	Agr		*	†	Granada, Minnesota
Purnell, Joseph Robert	Agr	24	*		Oak Park
Purnell, Ruth Juanita	SS	7			Ithaca, Michigan
Purnell, William Frank	Agr	102	*	†	Muncie
Pursell, Florence	SS	7			Champaign
Putnam, Mary Heiskell	HSLAS (SS)	59	*	†	Urbana
Putney, Emma Marion	HSLAS	61½	*		Missoula, Montana
Pyle, Carrie May	HSLAS	40½	*	†	Lebanon
Quackenbush, Charles Verbeck	MdP		*		Aurora
Quaid, Lloyd James	ME	37	*	†	Downs
Quick, Carl Jackson	LAS		*		Ridgefarm
Quick, Nan Mace	Mus		*	†	Farina
Quigley, Oliver Francis	ME	63	*	†	Wilmington
Quinlan, Josephine Cecilia	LAS sp		*	†	Tolono
Quinlan, Katherine May	LAS sp		*	†	Tolono
Quinn, Florence Katherine	Mus	103	*	†	LaFayette
Rabenau, John	Com		*	†	St. Louis, Missouri
Rackerby, Arthur Frederick	Law sp		*	†	Hutsonville
Radcliffe, Charles Bauer	ME		*	†	Rockford
Radeke, Carl Henry	ChE	28	*	†	Buckley
Rafferty, Richard Alphonsus	LAS	31	*		Chicago
Rafinski, Clement Joseph	Com	99½	*		Thomaston, Connecticut
Raggio, Maynard Holding	CE		*	†	Chicago
Ragland, Lewis Washington	LAS	71½	*	†	Urbana
Ragland, Nugent Atherton	CerE		*	†	Urbana
Rahn, Gertrude Augusta	HSAgr	32	*	†	Thornton
Rahn, Lester Addison	Agr	99½	*	†	Lanark
Rahn, Rudolph	ME	111	*	†	Thornton
Raich, Edwin John	CE	½	*	†	Warsaw
Raines, Lester Courtney	LAS (SS)	117½	*	†	Urbana
Raithel, Kathrene Rose	LAS	103	*	†	Chicago
Rakow, Walter Mattius	**LAS**			**†**	**Dundee**
Ralston, John Caldwell	Agr	25	*		Caledonia
Ramm, Walter Ferdinand	LAS (SS)	29½	*	†	Chicago

Ramsey, Carrie Eva	SS	28½		Danville
Randa, Charles Edward	EE	108	* †	Chicago
Randall, Frank John	Agr (SS)	96	* †	Aurora
Randall, Helene Markley	LAS	31	* †	Belvidere
Randall, Oscar	CE	35	* †	Washington, D. C.
Randolph, Glenn Lake	EE	96	* †	Trilla
Randolph, John Wiloughey	Agr	31	* †	Onango
Randolph, Stella	SS	4		Green Valley
Rankin, Luro Jane	LAS	98	* †	Payson
Ranney, Leland Mark	Agr		* †	Cazenovia
Ransford, Maurice Rueben	AE	71	* †	Los Angeles, California
Rao, Dharwan Vijaya	Agr	101	* †	Hospet, India
Rapp, LaVerna	CE		* †	Chicago
Rarick, John Nelson	Agr		* †	Urbana
Rasmussen, John Cadwalader	Agr		* †	New Albany, Indiana
Rath, Howard Harbin	Com		* †	Waterloo, Iowa
Rathbun, Harry Rowland	Com	66	* †	Glen Ellyn
Rathbun, Hubert Honens	Agr	126	* †	Spring Valley
Raup, Philip Ward	Com	11½	* †	Monroe Center
Rawitch, Maurice	ME		* †	Chicago
Rawls, John Correll	Com		* †	Oak Park
Ray, Earle Stanley	ME	35	* †	Mattoon
Ray, Robert Vernon	EE		* †	Mattoon
Rayburn, Lee Paul	Agr	29	* †	Champaign
Raymond, Emerson Edward	AE		* †	Chicago
Raymond, Frank Millard	Com		*	Wichita, Kansas
Rayson, Ennes Charles	Mus sp		*	Pittsford, New York
Rea, Doren Eugene	Com	31	* †	Avon
Reader, Emma Grace	LAS (SS)	101	* †	Centralia
Reagel, Edgar Allen	LAS		*	Waverly
Record, Ella Marion	HSLAS	82	* †	Cambridge
Redfearn, Harry Hurst	LAS		* †	Oak Park
Reding, Ralph Spears	Agr	69	†	Pekin
Reece, Robert Howell	ME	77½	* †	Evanston
Reed, Bessie Jane	Lib		* †	West Alexander, Pennsylvania
Reed, Cordelia	LAS	101	* †	Covington, Indiana
Reed, Chester Otis, B.S., 1911	SS			Gates, New York
Reed, Lowell James	LAS		* †	Eldorado
Reed, Lula Alice	LAS	8½	* †	Benton
Reed, Nina Lulu	LAS	29	* †	Kankakee
Reed, Roy Ogle	Agr	32	*	Washington, D. C.
Reed, Sina M	LAS	28	*	Danville
Reed, Wilma Virginia	HSAgr		* †	Equality
Reeder, Charles West Jr	Com	11	* †	Hays, Kansas
Rees, Bertram	SS			Vermilion Grove
Rees, Charles Thomas	Com	33	* †	Bradford
Rees, Myron Lester	Agr	56	* †	Rochester, Indiana
Rees, Olive	HSLAS		* †	Bradford
Reess, Stella Georgia	HSLAS	64	* †	St. Louis, Missouri
Reeves, Dorothy Ellen	Mus	33	* †	Milwaukee, Wisconsin
Reeves, Dwight Coleman	MdP		* †	Bement
Reeves, Hester Ruth	HSAgr	28	* †	Milwaukee, Wisconsin
Reeves, Owen Thornton	AE		* †	Peoria
Rehnquist, Arvid Lawrence	CE	35	* †	Chicago
Reich, Elizabeth Hattie	SS	4½		St. Louis, Missouri
Reichle, Richard Wendell	SS	14		Beason
Reid, George Hoster	Agr	101	* †	Mt. Vernon
Reid, Harold Speer	Agr	103	*	St. Paul, Minnesota
Reid, Helen Avery	LAS		*	Chicago
Reid, Stewart Franklin	Com	67	*	Springfield
Reilly, Walter Sheridan	AE sp	17	*	Danville
Reimer, Edward August Wilhelm	LAS		* †	Dundee
Reinback, Lucille	SS			Sheffield
Reineck, Robert Walter	ChE	33½	* †	Chicago
Reinhard, Otto Andrew	MdP	39	* †	Cullom
Reinke, Karl Louis	Com	28½	*	Chicago
Reinsch, Bernard Paul	LAS	146	*	Muscatine, Iowa
Reis, Leonard Joseph	AE		* †	Green Bay, Michigan
Remley, Walter Brown	Agr	63	* †	Waynetown, Indiana
Renfrew, Clara Eva	SS	7½		Urbana
Rennoe, Edgar Jackson	Com		* †	South Bend, Indiana
Renolds, Magdalene Agnes	SS	39		Cairo
Rentchler, Freida Clara	SS	9		Belleville
Reum, Oscar Anthony Jr.	ChE		* †	Chicago
Reuther, Theodore Ferdinand	LAS		* †	Effingham
ReVeal, Ivan Lindsey	LAS	69	*	Hoopeston
Reynolds, Harry Allen	ME	35½	* †	Chicago
Reynolds, Joseph Hiram	LAS		* †	Wenona
Rhoads, Marie Corzine	LAS	98	* †	Champaign
Rhodes, Frances	Mus		* †	Altamont
Rhodes, Golda May	HSLAS (SS)	71½	* †	Urbana
Rhodes, Opal Terrissa	HSLAS (SS)	72½	* †	Urbana
Rhue, Lena Cecelia	Com	73	* †	Champaign
Rhue, Perry Marion	Com	105	* †	Champaign
Rice, Helen Thompson	LAS		* †	Bridgeport
Rice, Katherine Grace	LAS	121	* †	Philo

Rice, Nathan Lyman	*Agr*	*62*	*	†	*Philo*
Rice, Ruby	*SS*	*7*			*Harrisburg*
Rice, Warner Grenelle	*LAS*	*35*	*	†	*Aurora*
Rich, Rufus Joseph	*Agr*		*	†	*Morton*
Richards, Gladys Ersel	*Mus*	*42*	*	†	*Champaign*
Richards, Gordon Douglas	*LAS*		*	†	*Dundee*
Richards, John Ott	*SS*	*52½*			*Silvis*
Richards, Olive Arey	*HSAgr (SS)*	*106*	*	†	*St. Louis, Missouri*
Richardson, Donald Ellis	*Agr*		*	†	*Shelbyville*
Richardson, Paul Charles	*LAS*		*	†	*Olney*
Richardson, Robert Merriman	*Com*		*		*Compton*
Richardson, Wilder Avery	*Agr*	*27*	*		*Compton*
Richart Berta Estella	*HSLAS (SS)*	*83½*	*	†	*Urbana*
Richart, Blanche Belle	*LAS (SS)*	*113*	*	†	*Champaign*
Richart, Mrs. Mary Fern, A.B., B.Mus., 1916-17	*Mus sp*		*	†	*Urbana*
Richison, Frank A	*SS*	*5½*			*Scotland*
Richmond, Dorothy	*LAS*		*		*Gibson City*
Richmond, Jean Eleanora	*HSLAS (SS)*	*85½*	*	†	*Waterman*
Richter, Gertrude Katherine	*Com*	*100½*	*	†	*Davenport, Iowa*
Ricker, Ethel	*Mus sp (SS)*		*	†	*Urbana*
Ricketts, Esther Brodie	*SS*	*8*			*Pana*
Ricketts, Louise Bertha	*HSLAS*		*	†	*Pekin*
Ricks, Juanita May	*Mus*	*44*	*	†	*Urbana*
Ricks, Marcella Angel	*LAS*		*	†	*Urbana*
Rideout, Orletta Estelle	*LAS*		*	†	*Freeport*
Rider, Dean Loller	*MdP*	*33*	*	†	*Bushnell*
Rider, Jay Merle	*LAS*		*		*Rockford*
Riedle, William Reid	*LAS*	*31*	*	†	*Chicago*
Riess, Carl John	*MdP*	*28*	*	†	*Pontiac*
Riggen, Cora Alma	*Mus*		*		*La Porte City, Iowa*
Riker, Eugene Alfred	*SS*				*Flint, Michigan*
Riley, John Stewart	***LAS***			**†**	***Rockford***
Rinck, Franklin Bliss	*ChE*		*	†	*Rock Island*
Ringeisen, Hazel Novella	*LAS*	*68*	*	†	*Toledo, Ohio*
Rippey, Ollie Brown	*SS*	*18*			*Mt. Pleasant, Tennessee*
Ripple, Ruth Anna	*LAS*	*89*	*	†	*Chicago*
Risley, Ralph Edwin	*ME*	*36*	*	†	*Decatur*
Risley, Walter John Jr	*LAS*	*73*	*	†	*Decatur*
Risser, Constance Katherine	*HSLAS*	*67*	*	†	*Kankakee*
Risser, Walter Scott	*EE*	*32*	*	†	*Paris*
Ritcher, Henry Adelbert	*SS*	*28½*			*Troy*
Ritsch, Howard Paul	*ChE*		*	†	*Chicago*
Ritt, Walter William Henry	*AE*	*74*	*	†	*Crystal Lake*
Rittenhouse, Donald Arter	*EE*	*41*	*	†	*Cairo*
Ritter, Walter Theobald	*ME*	*116*	*	†	*Chicago*
Roach, Emmet John	*Com*	*32*	*	†	*Chatworth*
Robb, Rosalind Ruth	*LAS*		*		*Creston, Iowa*
Robb, Zenas Allan	*Agr*		*	†	*Swanwick*
Roberts, Claude Morrill	*Com*	*93½*	*	†	*Decatur*
Roberts, Lois Madeline	*SS*	*118½*			*Della, Maryland*
Robertson, Arthur Beckman	*Agr*	*101*	*	†	*Petersburg*
Robertson, Edna Maude	*LAS*	*44*	*	†	*Champaign*
Robertson, Ina Cullom	*SS*	*12*			*Olney*
Robertson, Jane	*SS*				*Champaign*
Robertson, Jessie	*LAS*		*		*Plattsmouth, Nebraska*
Robertson, Robert Crawford	*MdP*	*29*	*	†	*Coulterville*
Robinson, Albert Wills	*ME*		*		*Champaign*
Robinson, Ethelyn Clyde	*HSLAS*	*103*	*	†	*LaSalle*
Robinson, Harold Lynn	*Com*	*65*	*		*Buffalo*
Robinson, Leon Wood	*EE*		*	†	*Canandaigua, New York*
Robinson, Mary Katherine	*LAS*	*33*	*	†	*Bloomington*
Robinson, Myra Jane	*HSLAS (SS)*	*65*	*	†	*Kansas*
Robinson, Ray Mudge	*ChE*	*60*	*	†	*Watertown, New York*
Robinson, Sarita	*Lib*		*	†	*Chile, South America*
Robnett, Margaret	*SS*	*2*			*Columbia, Missouri*
Rockwell, Charles N	*LAS*		*		*La Grange*
Rodrigues, Antonio	*CE*	*123½*	*	†	*Mata, Santa Clara, Cuba*
Roe, Alden Franklin	*LAS*		*	†	*Palisade, Colorado*
Roe, Edar Bertram	*Agr*	*100*	*	†	*Palisade, Colorado*
Roemer, Agatha Alethea	*SS*				*Waukegan*
Roetzel, Cecile Amelia	*LAS*	*60*	*	†	*Bald Knob, Arkansas*
Rogers, Frances Mairian	***LAS***			**†**	***Table Grove***
Rogers, Julia McLean	*Lib*		*	†	*Hillsboro, Ohio*
Rohe, Elmer Milton	*AE*		*	†	*Blue Island*
Rohe, Walter Henry	*Com*	*32*	*	†	*Chicago*
Rohrbough, Elsie Gwendolyne	*LAS*	*66*	*	†	*Salem*
Rohsenberger, Otto Leo	*Com*		*	†	*Evansville, Indiana*
Rolfe, Mary Anette	***LAS***			**†**	***Champaign***
Roll, Gilbert Arthur	*ChE*		*	†	*Blue Island*
Rollins, Neta	*LAS (SS)*	*92*	*		*Paxton*
Romano, Michael Angelo	*LAS*	*30½*	*	†	*Chicago*
Romero, Newman	*LAS*	*111*	*		*Valparaiso, Chile*
Rominger, William Edgar	*Law sp*	*22*	*		*Shelbyville*
Rompel, Ruth Edith	*LAS*	*99*	*	†	*Champaign*
Ronalds, Francis Spring	*LAS*	*38*	*		*Carmi*

Root, Russell William	LAS	32	* †	Morris
Rose, Ethel Maye	HSLAS	102	* †	Bement
Rose, Ethel Marian	SS	8		Virginia
Rose, Floyd Ames	ChE		†	Sycamore
Rose, Lena Belle	LAS		* †	Urbana
Rosecrans, Crandall Zachariah	ME (SS)	76	* †	Champaign
Rosen, John	Com	33	* †	Chicago
Rosenberg, Herbert Bernard	SS	130½		Granite City
Rosenberg, William Harry	MdP	33	*	Chicago
Rosenquist, Carl Martin	Agr	1	* †	Mitchell, South Dakota
Rosenstone, Edwin Arthur	LAS	79	* †	Cambridge
Rosier, Albert Eugene	CE		*	Amboy
Rosinbum, Earl Andrew	SS			Burley, Idaho
Ross, Florence Elizabeth	LAS		* †	Oglesby
Ross, Nelda Glendora	HSAgr	104	* †	Easton
Roth, Florence Catherine	HSLAS	95	* †	Chicago
Roth, Raymond Leroy	Agr		* †	Aurora
Roth, Walter John	Agr		* †	Denver, Colorado
Rourke, Margaret	SS	74½		Springfield
Rouse, Floyd Ralph	LAS	3	* †	Danville
Rouse, Owen C	Agr		* †	Paynes Depot, Kentucky
Rowe, Jack LeRoy	SS	142		Chicago
Rowen, Leo Vivin	Agr		*	Freeport
Ruckman, Kathleen Margaret	LAS		* †	Champaign
Ruedy, Robert John	REE	36	*	Mendota
Ruehe, Harrison August	Agr		* †	Urbana
Ruehe, Mabel Louise, B.Mus., 1916	SS	175		Urbana
Ruffner, Rachel	HSAgr	98	* †	Marshall
Ruhle, George Cornelius Frederick	ChE		* †	Kankakee
Rummel, Evelyn Agnes	LAS	31	* †	Emden
Rumsey, Zilla	LAS		* †	Muscatine, Iowa
Rundquist, Elmer Theodore	Agr	105	*	Harvey
Runge, Marie Belle	SS	70		Chrisman
Rush, Clara Lillian	Mus	11	* †	Detroit
Rush, Harriet Margaret	SS	7½		Pittsfield
Russakov, William Erwin	AE		* †	Chicago
Russell, Charles Chauncey	ChE	39	* †	Joliet
Russell, Charles Clifton	Agr	66	* †	Urbana
Russell, Frances	HSAgr (SS)	59	* †	Champaign
Russell, Mary Dunlap	HSLAS	26	* †	St. Louis, Missouri
Russell, Virginia Elizabeth	LAS	77	* †	Champaign
Russell, William Bradford	ME	5	* †	Joliet
Russo, William Joseph	LAS	39	*	Chicago
Rutherford, Elizabeth Jane	LAS (SS)	70	* †	Oakland
Rutledge, James Hirst	MdP	33	* †	Champaign
Rutledge, Margaret Emma	HSLAS	32	* †	Champaign
Ryan, Clarence Walter	Agr		* †	East Alton
Ryan, Howard Robert	EE	67	* †	Elgin
Rycroft, Herbert Dyson	Com		* †	Chicago
Ryder, Horace Alonzo Lewis	EE (SS)	108½	* †	Baker, Oregon
Sabin, Alan Lucien	MdP		* †	Sullivan
Sabin, Helen Mackey (Mrs.)	SS	104½		Chicago
Sadler, Harold Frank	LAS		* †	Grove City
Saffell, Gladys Deforest, A.B., 1917	Mus		*	Urbana
Saffer, Rex Eugene	AE		* †	Urbana
Safford, Roy Ellis	Com		*	Paris
Sagara, Shunto	ChE		* †	Kumamoto, Japan
Sagendorf, Arba Loren	EE		* †	La Grange
Sahud, William Harry	LAS	19	†	Chicago
Sailer, Frank	Agr (SS)	108	* †	Chicago
Sale, Cora Virginia	LAS		* †	Urbana
Salladin, George Edward	Com	107	* †	Milford, Nebraska
Salveson, Stella Marie	HSLAS		* †	Petersburg
Salzenstein, Harold Irving	Com		* †	Peoria
Salzenstein, Louis Charles	Com		* †	Athens
Sampaio, Jose de	RCE	18	*	Sao Paulo, Brazil
Samuels, Teresa Minna	LAS	97	* †	Chicago
Sanders, Ella Jane Pickles	SS	72½		Goreville
Sanders, Paul Thomas	Agr	25	*	Pance
Sanderson, Arthur Kingston	ME	73	* †	La Grange
Sandholm, Frank Henry	Com		* †	Sycamore
Sandler, Edward Adolf	Law	61	* †	Cairo
Sands, Lewis Morgan	Com	32	* †	Tolono
Sandvold, Conrad Elmer	Com	101	*	Moorhead, Iowa
Santiago, Alfredo Viola	AE	119½	*	Bulacan, Philippines
Sapiro, Edith Ida	Law sp		*	Milwaukee, Wis.
Saramago, Jose R	Eng sp			Ovar, Portugal
Sargent, Charlene Marie	LAS	33	* †	Indianapolis, Indiana
Sargent, Francelia Plumly	Com	99	* †	Indianapolis, Indiana
Sarven, James David	MdP	21½	* †	St. Petersburg, Florida
Sassin, Tony Edmund	ME		*	St. Louis, Missouri
Sato, Kennosuke	LAS	93	* †	Urbana
Satterfield, Helen Charlotte	LAS	88	* †	Chicago
Sauer, Earl Joseph	MdP	30	* †	Collinsville
Savage, Marie	SS	134		Champaign
Savage, William Elliott	SS	133½		Belleville

Savord, Katherine Ruth	*LAS*	*25*	*	†	*Sandusky, Ohio*
Sawers, Kathleen	*LAS*			†	***Dupo***
Sawyer, Gertrude	*Agr*	*103*	*	†	*Norborne, Missouri*
Sawyer, Ralph Warren	*Agr*	*32*	*	†	*Chicago*
Sayler, Walter Benton	*SS*	*7*			*Eaton, Ohio*
Sayles, Edgar Van Syckel	*REE*		*		*East Lansing, Michigan*
Saylor, Harold Ellsworth	*Com*	*27*	*	†	*Fort Wayne, Indiana*
Scanlan, Chester Jerome	*ME*	*69*	*	†	*Bloomington*
Schaefer, Alby Conway	*HSLAS*	*71⅓*	*	†	*Richmond, Indiana*
Schaefer, Harold John	*CerE*		*	†	*Streator*
Schaefer, Jesse Ovid	*SS*	*17*			*Paris*
Schaefer, Ruth Marian	*SS*	*109¾*			*Chicago*
Schafer, Truman Trent	*ME*		*		*Port Byron*
Schapiro, Emanuel Earl	*ME*		*	†	*Chicago*
Schattgen, Harry Andrew	*CE*		*		*Jerseyville*
Scheenas, Christopher	*EE*			†	***Greece***
Scheffer, Wilhelmina	*LAS*	*100*	*	†	*Atwood*
Schenck, Vernon Gates	***Com***	***64***			***Jamestown, New York***
Schierbaum, Edna Hulda	*Agr*		*		*Stronghurst*
Schierbaum, Ethel Helen	*HSLAS*		*	†	*Stronghurst*
Schifflin, Arthur Krissler	*ME*	*107½*	*	†	*Chicago*
Schifflin, Philip Herman	*Com*		*	†	*Chicago*
Schilling, Melanie Anna	*LAS*		*	†	*Chicago*
Schimpff, Charles Henry	*EE*		*	†	*Peoria*
Schlacks, Henry Valentine	*EE*	*75*	*	†	*Chicago*
Schlacks, Nicholas Francis	*ME*		*	†	*Chicago*
Schlesselman, Louise Ida	*LAS*	*33*	*		*Lafayette*
Schlichting, Eugene Reuther	*Law sp*		*		*Deadwood, South Dakota*
Schloss, Harold Julian	*Agr*	*68½*	*	†	*Terre Haute, Indiana*
Schlosser, Charles E	*Law sp*		*	†	*Pontiac*
Schluter, Harold John	*Com*		*	†	*Moline*
Schlutius, George William	*AE*		*	†	*St. Louis, Missouri*
Schmalmaak, Charles Louis	***EE***	***12***		†	***St. Louis, Missouri***
Schmeltzer, Chauncey Brockway	*CE*	*87*	*	†	*Manteno*
Schmidt, Richard Wagner	*CE*	*68*	*	†	*Chicago*
Schmitt, Arthur Earl	*EE*	*37*	*	†	*Mt. Vernon*
Schmitz, Herbert John	*AE*	*15*	*	†	*Chicago*
Schmoeller, Arthur William	*Com*		*	†	*Alton*
Schneider, Delmont Joseph	*ME*	*74*	*	†	*St. Louis, Missouri*
Schneider, Esther Frederica	*HSLAS*		*	†	*Urbana*
Schneider, Nora Wilhelmine	*LAS*	*69*	*	†	*Urbana*
Schneider, Ralph Fred	*ChE*	*47½*	*	†	*Wheatland, Iowa*
Schneider, William Henry	*LAS*	*95*	*	†	*Springfield*
Schnellbacher, Jacob Paul	*Com*	*70*	*	†	*Peoria*
Schock, Jean Adam	*Com*		*	†	*Chicago*
Schock, William Vierling	*Agr*	*33*	*	†	*Albion*
Schoeffler, Oscar August Edmond	*Com*		*	†	*Alton*
Schoembs, Edgar O	*Com*	*13*	*		*Cairo*
Schoen, Jeanette	*Agr*		*	†	*St. Louis, Missouri*
Schoene, Herbert Frank	*SS*	*138½*			*Chicago*
Schoening, Earl Frederick	*Com*		*	†	*Chicago*
Schooley, David	*EE*		*	†	*Kinmundy*
Schott, John Theodore	*EE*	*36*	*	†	*Quincy*
Schrader, Dayton Oscar	*LAS*	*35*	*	†	*Bridgeport*
Schrear, Edna	*SS*	*5½*			*Warrensburg*
Schreiber, Louis Henry	*Agr*	*103*	*	†	*Chicago*
Schrero, Morris	*ChE*	*67*	*	†	*Chicago*
Schriner, Ernest Merle	*Agr*		*	†	*Elgin*
Schubkegel, Olga Maria Lena	*SS*	*8*			*Mascoutah*
Schuessler, Robert Lee	*Com*		*	†	*Ashland, Alabama*
Schuh, Charles Redden	*Com*	*30*	*	†	*Cairo*
Schuler, Robert Eustace	*MinE*	*17½*	*		*Gadsden, Alabama*
Schultz, Clarence John	*Com*	*33½*	*	†	*Chicago*
Schultz, Clarence William	*EE*	*70*	*	†	*Harvard*
Schultz, Jacob William	*Agr sp*		*		*New York City, New York*
Schultz, Louis William	*LAS*	*63*	*		*Oak Park*
Schulz, Frank J	*Com*	*104*	*	†	*Elmwood*
Schumacher, Irwin Charles	*Com*		*	†	*Chicago*
Schutt, Marjorie Laura	*SS*				*Chicago*
Schutt, Walter William	*Agr*	*23½*	*	†	*Barrington*
Schwagmeyer, Ella	*LAS*	*108⅓*	*	†	*Quincy*
Schwarz, John Earl	*AE*	*37*	*	†	*Storm Lake, Iowa*
Schweich, Julius Sachs	*ChE*		*	†	*St. Louis, Missouri*
Schweizer, Walter Adolph	*Com*		*	†	*Chicago*
Schwietzka, Anna Elizabeth	*SS*	*8*			*Owenton, Kentucky*
Scohy, Will Joseph	*Agr*	*13*	*		*Okmulgee, Oklahoma*
Scott, Bernyce Jeanette	*SS*	*6½*			*Galesburg*
Scott, Ella Grace	*SS*	*16*			*Newton*
Scott, Esther Selb	*LAS*	*66*	*	†	*Venice*
Scott, Gladys Russell	*HSLAS*	*63*	*	†	*Xenia, Ohio*
Scott, Leonora Sarah	*HSLAS*		*	†	*Venice*
Scott, Lois Marie	*LAS*	*65*	*	†	*Mattoon*
Scott, Mary Stanhope	*LAS (SS)*		*	†	*Lampasas, Texas*
Scott, Sidney Glenn	*Com*	*56*	*	†	*Champaign*
Scott, Wellington Whitaker	*Com*	*4*	*	†	*Gundry Center*
Scoville, John Allen	*CE*	*90*	*	†	*Peoria*

Scroggs, John Lambertson	*LAS*	*21*	*	*Beresford, South Dakota*
Scrogin, Sarah E	*LAS sp*		* †	*Lexington*
Searle, Truman Gorton	*LAS*	*109*	* †	*Geneseo*
Seaton, Irene	*LAS*		* †	*Quincy*
Seavey, Harry Richmond	*EE*	*108*	* †	*Momence*
Seawright, George Breynard	*Com*		* †	*Lafayette, Indiana*
Secard, Arthur Wellesley	*SS*			*Nash, Oklahoma*
Sedgley, Arlos	*AE*	*35½*	* †	*Omaha, Nebraska*
Segal, Perry	*Com*		* †	*Chicago*
Segur, John Bartlett	*Chem*	*69*	* †	*Watseka*
Seibert, George Clement	*AE*	*36*	* †	*Altamont*
Seibert, Harold Stein	*EE*	*36*	*	*Mt. Carmel*
Seidel, Dorothy Katherine	*LAS*	*34*	* †	*Kansas City, Missouri*
Seidel, Richard Theodore	*Agr*	*34*	* †	*Chicago*
Seiglinger, Frank Vernon	*Com*	*35*	*	*Sterling*
Seiler, Erna	*LAS (SS)*	*51*	* †	*Champaign*
Seitz, William Anfield	*AE*		* †	*Mt. Carmel*
Selden, Bryant Richard	*Agr*		* †	*Durand*
Sellmer, Helen Emma	*LAS*	*31*	* †	*Moline*
Selzer, Louis Jacob	*AE*	*108*	* †	*Evansville, Indiana*
Seubold, Heinrich John	*Agr*	*93*	* †	*Huntingburg, Indiana*
Sewell, Augusta Fern	***Mus***	***16***	**†**	***Monticello***
Seymour, Arthur Romeyn, Ph.D.	*Mus*		* †	*Urbana*
Seymour, Burleigh Beaumont	*MinE*		* †	*Benton*
Seymour, Ernest Edward	*Agr*		* †	*Henning*
Seymour, Russell	*AE*		* †	*Oakwood*
Seyster, Lois Ferne	*LAS*	*68*	* †	*Champaign*
Shaddle, Lee Norton	*Agr*	*32*	* †	*Area*
Shaddock, Rolla Edward	*Agr*	*81½*	* †	*Macon*
Shade, Caude Cloide	*Agr*	*64*	*	*Montpelier, Indiana*
Shade, Dorothy	*LAS*	*32*	* †	*Lexington*
Shade, Frances Joanna	*HSLAS*		* †	*Lexington*
Shade, Mary Marguerite	*LAS*	*26*	* †	*Montpelier, Indiana*
Shaffer, Susan Kurzenknabe	*LAS (SS)*	*62*	* †	*Chicago*
Shaffer, Wilhelmine	*LAS*	*67*	* †	*Chicago*
Shaffner, Clara Irene	*HSLAS*	*62*	* †	*St. Louis, Missouri*
Shallberg, Leslie Edward	*ChE*		*	*Moline*
Shapiro, Abraham	*ME*	*58½*	* †	*Chicago*
Shapiro, Ben	*AE*	*36*	* †	*St. Louis, Missouri*
Shapiro, Benjamin	*Com*	*71*	* †	*Chicago*
Shapland, Fern Elizabeth	*HSLAS*	*95*	*	*Saunemin*
Shapley, Ralph P	*Agr*	*77*	*	*Rockford*
Sharp, Ethel Ruth	*SS*	*26½*		*Urbana*
Sharp, Mildred	*SS*	*50*		*Mattoon*
Sharpe, Leano Frances	*SS*	*7*		*Warrensburg*
Shaw, Benjamin Thomas	*EE sp*		* †	*Dixon*
Shaw, Helen Catherine	*HSLAS*		* †	*San Diego, California*
Shaw, Horace Bateman	*LAS*	*7*	*	*Montgomery, Alabama*
Shaw, Mary Louise	*LSLAS*	*61*	* †	*Harrisburg*
Shaw, Wilfred	*Agr*	*65*	* †	*Marshall*
Shawhan, Mercy Nadine	*HSLAS (SS)*	*97*	* †	*Decatur*
Sheaff, Robert Phineas	*Agr*	*100*	*	*Holcomb*
Shedden, Forest Robert	*REE*	*55*	* †	*Elgin*
Shedler, William Ralph	*Law sp*		* †	*Benton Harbor, Michigan*
Sheerer, Gertrude Elizabeth	*HSLAS*		* †	*Hammond, Indiana*
Sheffer, William Heber	*Agr*	*99*	* †	*Auburn, Indiana*
Sheldon, Beulah Mulford	*LAS*	*69*	*	*Chicago*
Sheldon, Nelson Edward	*AE*	*108*	* †	*Rockford*
Sheller, Charles Henry	*Com*		* †	*North Manchester, Indiana*
Shelton, Fairy Pearl	*HSAgr*	*28*	*	*Terre Haute, Indiana*
Shelton, Wilma Loy	*Lib*	*55*	* †	*Terre Haute, Indiana*
Shepard, Eugene Franklin	*LAS sp*		*	*Chicago*
Sheppard, Leila Margaret	*Mus*	*33*	* †	*Edwardsville*
Shermak, Albert	*LAS sp*		* †	*Hungary*
Sherman, Caroline Elizabeth	*HSLAS*	*63*	* †	*Vienna, Virginia*
Sherman, Leta Elmina	***LAS***	***64***	**†**	***Casey***
Shewmon, Joe Allen	*Agr*	*101*	*	*Oak Park*
Shine, Raymond	*Com*		* †	*New Albany, Indiana*
Shing, Chi Ting	*RCE*	*135½*	* †	*Changsha, Hunan, China*
Shively, Jean	*HSLAS*	*80*	* †	*Champaign*
Shlaudeman, Harry Ricker	*CE*	*70*	* †	*Pasadena, California*
Shoemake, Hubbard Charles	*Com*		* †	*Oskaloosa, Iowa*
Shonkwiler, Francis Lucian	*ME*	*109*	* †	*Monticello*
Shonkwiler, Robert Payson	*LAS*		* †	*Monticello*
Shoop, Arnold Cheney	*Com*		* †	*Chicago*
Shore, Emma Pearl	*SS*	*8*		*Chandlerville*
Shoup, Sister Mary Celeste	*SS*	*1½*		*Carthage*
Showalter, Rebecca Orpha	*LAS*		* †	*Fountain City, Indiana*
Shrader, Naomi	*Agr*		* †	*Kansas City, Missouri*
Shrimplin, Pearl Marie	*HSLAS*	*26*	* †	*Sheldon*
Shriver, Helen Elizabeth	*SS*	*130*		*Urbana*
Shroyer, David Mirven	*Agr*	*87*	*	*Urbana*
Shrum, Edmond Jerome	*Agr*	*68*	* †	*Valley City, North Dakota*
Shull, Charles Eugene	*SS*			*Mt. Crawford, Virginia*
Shuman, Frank Hamilton	*Agr*		*	*El Paso*
Shumway, Frederick Weston	*LAS (SS)*	*96*	* †	*Chicago*

Shup, Laurence Edgar	LAS	97	* †	Newton
Shurtz, Charles Richard	SS			Champaign
Shy, Frank Spain	Com	107	* †	Olney
Sieglinger, Frank Vernon	Com	35	†	Sterling
Siegrist, Damon Carl	Agr	94	* †	San Jose
Siegrist, Louis Arnold	Chem		* †	Highland
Siemens, Anne Blanchard	LAS	93	*	Kansas City, Missouri
Siemens, George Mellin, Jr.	LAS		* †	Kansas City, Missouri
Sigel, Sidney Orville	CE	65	* †	Chicago
Sigfridson, Ebba Beatrice	HSAgr	61	* †	Geneva
Sikes, Alfred Wallin	ChE		* †	Chicago
Silver, Hazel Marguerite	HSAgr	56	* †	Urbana
Silver, Mary Verna	HSAgr	31	*	Urbana
Simmon, Allen Ambrose	ChE		* †	Moline
Simmons, Elwyn Leroy	AE	74	* †	Oak Park
Simmons, George Haskell	EE	69	* †	Avon
Simmons, Oliver Beardsley	CE		* †	Kansas City, Missouri
Simms, Robert Chapman	Agr	34	*	Chicago
Simon, Abe Harry	Com		* †	Chicago
Simon, Leo	Com		* †	Chicago
Simons, Joseph	ChE	72	* †	Chicago
Simons, Philip Gardner	LAS		* †	Chicago
Simpson, Irene Elizabeth	SS	84		Urbana
Sinclair, James William	Law sp		*	Ft. Smith, Arkansas
Sinclair, Ralph Merritt	Com		* †	Dundee
Singh, Kehar	ME sp		* †	Dist. Ludhiana, India
Sipe, Raymond Erwin	Agr	105	* †	Rochelle
Six, Fred Carl	EE	34	*	Mattoon
Skaer, Edwin William	SS	26		Belleville
Skelly, Ernest James	Com	27½	* †	Davenport, Iowa
Skidmore, James Edward	Agr		* †	Chicago
Skinner, Bertram Eugene	Agr	67	* †	Chicago
Skinner, Melvin Benjamin	REE	72	*	Chicago
Skoglund, Herbert LeRoy	Agr	38	*	Red Wing, Minnesota
Skoglund, Reuben Adolphus	Agr	31	*	Red Wing, Minnesota
Slack, William Silas	EE	107	* †	Salem
Slade, Elizabeth Muriel	HSAgr	51	* †	Rockford
Slade, Katherine Claire	LAS	102	* †	Rockford
Sladek, Robert Bohumil	Agr	106	* †	Cicero
Slaght, Evert Leroy	AE	72½	*	Chicago Heights
Slater, Ralph Gardner	Agr	21	* †	Aurora
Sleezer, Marion Winifred	LAS		†	Paxton
Sloan, Deena Agnes	HSLAS	68	* †	Urbana
Sloan, Madeline Rebina	HSAgr	66	* †	Urbana
Sluzalis, Rose Eva	SS	6½		Canton
Smart, Howard Harlow	EE		* †	Scales Mound
Smejkal, Frank Harvey	CE		* †	Chicago
Smejkal, Richard E	Com		†	Chicago
Smiley, Earl James	CE	69	* †	Elgin
Smith, Alice Medora	SS			Oak Park
Smith, Anne Elizabeth	HSAgr	87	* †	Austin
Smith, B Howard, Jr.	LAS	32	* †	Kansas City, Missouri
Smith, Cecil Maxey	LAS		* †	East St. Louis
Smith, Charles Cobb	EE		* †	Chicago
Smith, DaVon	EE	29	* †	Urbana
Smith, Edith Evangeline	HSLAS		* †	Kankakee
Smith, Edmund Joseph	LAS	33	* †	Chicago
Smith, Elsie Webb	SS	19½		Benton
Smith, Emily Evelyn	HSAgr		* †	Champaign
Smith, Eugene Frederick	ME		†	Chicago
Smith, Eunice Edwina	LAS	33	* †	Chicago
Smith, Everett William	CerE	53	* †	Geneva
Smith, Fern Gladys	SS	49		Maywood
Smith, Florence Chafee	Agr		†	Normal
Smith, Forest Henry	EE (SS)	85	* †	Libertyville
Smith, George Edward	Agr	44	* †	Warrensburg
Smith, Glenn Collins	Agr	118	*	Greenfield
Smith, Grace Marie	SS	8		St. Elmo
Smith, Harold Henson	Com sp		*	Urbana
Smith, Hawley Lester	LAS	91½	*	Clifton
Smith, Jennie Marie	LAS (SS)	17	* †	Benton
Smith, John Aaron	SS	6		Troy
Smith, Joseph Edward	ME	19	* †	Chicago
Smith, Kenneth Leslie	AE		*	Aurora, Indiana
Smith, Leonidas Logan	AE (SS)	101	* †	Toledo
Smith, Lloyd Lorenzo	RME		* †	McComb, Mississippi
Smith, Lucia Lufkin	Agr		†	Normal
Smith, Marian Kathryn	Agr	66	* †	Monticello
Smith, Mary Parnell	HSAgr (SS)	100	* †	Cuba
Smith, Nellie Ermina	LAS	36	* †	Lawrenceville
Smith, Niles Bainbridge	ME		* †	Birmingham, Alabama
Smith, Paul McCorkle	SS	121½		Rockford
Smith, Pearl Marie	SS	16½		Kirkwood
Smith, Portia Genevieve	LAS		* †	Palestine
Smith, Ralph Lindon	Agr	67	* †	Bellflower
Smith, Robert Burns	ME		* †	Brilliant New Mexico

Smith, Steadman Garretson	*LAS*		*	†	*Chicago*
Smith, Stuyvesant Chatteris	*ME*		*	†	*Evanston*
Smith, Thurston Woods	*Com*		*	†	*Albion*
Smith, Valda Eveline	*HSLAS*	*99*	*	†	*Geneseo*
Smith, Walter Buckingham	*SS*				*Ashley, Ohio*
Smith, Wilhelmina Zoe	*SS*	*137⅓*			*Champaign*
Smith, Willard Daniel	*LAS*		*	†	*Bellflower*
Snell, Clarence Eastlake	*Com*	*94*	*	†	*Oak Park*
Snell, Harry Stirling	*Chem*	*103*	*	†	*Oak Park*
Snively, John Rowe	*LAS*	*30*	*	†	*Lanark*
Snook, Harry Guilford	*EE*		*	†	*Chicago Heights*
Snow, Beatrice Nordica	***LAS***			†	***Chicago***
Snyder, Daniel Victor	*CE*	*57*	*		*Chicago*
Snyder, Fanny	*SS*				*Peru*
Snyder, George David	*Com*	*80*	*		*Altoona, Pennsylvania*
Snyder, Harold Vesey	*LAS*	*36*	*	†	*Rockford*
Snyder, Harry William	*EE*	*60*	*	†	*Alton*
Snyder, Howell	*MdP*	*72*	*		*Peoria*
Snyder, Laurence Odell	*Com*		*	†	*Mt. Pulaski*
Snyder, Willard Ayres	*AE*	*30½*	*	†	*Mt. Pulaski*
Somdal, Dewey Anderson	*AE*	*34*	*	†	*Springfield*
Somers, Aloysius Joseph	*Agr*	*99*	*	†	*Kankakee*
Somers, Paul Peter	*LAS Chem*	*32½*	*	†	*Kankakee*
Somers, Russell Ivan	*SS*	*79½*			*St. Joseph*
Sontag, Raymond John	*Com*	*36*	*	†	*Chicago*
Sortwell, Harold Haynes	*CerE*	*112*	*		*Indianapolis, Indiana*
Sotola, Jerry	*Agr*	*96*	*	†	*Chicago*
Southard, Edward Oliver	*Com*		*	†	*Elgin*
Southcomb, Leslie Spencer	*Com*	*60*	*		*Morris*
Souza, de Paulo Cuba	*ME (SS)*	*5*	*	†	*Sao Paulo, Brazil*
Soward, Lylyan Priscilla	*LAS*		*	†	*Fithian*
Soward, Zelda Elizabeth	*LAS*	*31*	*	†	*Fithian*
Sowers, Mildred Lucille	*LAS*		*	†	*Tollula*
Spalding, Marjorie Mae	*SS*	*44*			*Champaign*
Space, Carnie Manfield	*SS*	*8*			*Seymour, Indiana*
Spangler, Charles Foskey	*Com*	*127*	*	†	*Amboy*
Spangler, Rodney Eugene	*AE*	*28*	*	†	*Amboy*
Sparks, Keith Emanuel	*LAS*	*71*	*	†	*Connersville*
Spatny, Zdenka	*LAS*	*67*	*	†	*Chicago*
Spaulding, Fred Herbert	*LAS*		*		*Springfield*
Spear, Helen Eudora	*LAS*	*98*	*	†	*Rockford*
Speck, Philippa Bena	*LAS*		*	†	*Peoria*
Spelce, John Edward	*LAS ChE*	*63½*	*	†	*Sycamore*
Spencer, Mrs. Blanche Beebe	*HSLAS*	*69*	*	†	*Vandalia*
Spencer, Clifford Frank	*EE*		*		*Farmington*
Spencer, John Ralph	*Agr*	*64*	*	†	*Geneseo*
Spencer, Robinson	*Lib (SS)*	*39*	*	†	*Cincinnati, Ohio*
Spengler, Harold Carl	*Com*	*20*	*	†	*Rockford*
Sperry, Ralph Edward	*Com*	*103*	*	†	*Urbana*
Spicer, William Glenn	*EE*	*29*	*	†	*Marseilles*
Spiegler, Louis	*LAS*	*52*	*	†	*Chicago*
Spiker, Fern Marie	*HSLAS*		*	†	*Bushnell*
Spindler, Carl	*ME*	*36*	*	†	*Peoria*
Spindler, David Christopher	*Agr*		*	†	*Chicago Heights*
Spindler, Raymond Lewis	*Agr sp*		*	†	*Chicago Heights*
Spindler, Walter Herbert	*CE*	*36½*	*	†	*Peoria*
Spitler, Alice	*SS*				*Dayton, Ohio*
Spitz, Milton Joseph	*Chem (SS)*	*83⅚*	*		*Chicago*
Spiwak, Louis	*CE*		*	†	*Ottumwa, Iowa*
Spofford, Franklin Dawson	*EE*	*37*	*	†	*Warren*
Spors, Albert Robert	*Com*	*31*	*		*Butte, Nebraska*
Sprague, George Chester	*Agr*	*73*	*		*Lockport*
Sprague, Norman Ellsworth	*CE*	*113*	*		*Evanston*
Springer, Lloyd Asbury	*EE*		*	†	*Springfield*
Springston, George Baillie	*LAS*		*		*Peoria*
Sprowls, Luna Lenore	*SS*	*107½*			*Gibson City*
Stabler, Harold Robertson	*Com*	*28*	*		*Camp Point*
Stabo, Nils Ewind	*Com*	*15*	*		*Decorah, Iowa*
Staehle, Ida Marie	*LAS sp*		*		*Joliet*
Stafford, Edward Emerson	*Com*	*70*	*		*Alton*
Stahl, Chester Dewey	*EE*	*31*	*	†	*Tonkawa, Oklahoma*
Stahl, Edgar Allen	*Agr (SS)*	*88½*	*		*Dana, Indiana*
Staley, Elmer George	*ME*		*	†	*LeRoy*
Staley, Paul Scott	*Com*		*	†	*Pana*
Stamey, Alice Marguerite	*LAS*		*	†	*Champaign*
Stamm, George Frederic	*Agr*	*33*	*	†	*Aurora*
Stamp, Fred Pfarr	*LAS*	*35*	*		*Wheeling, West Virginia*
Stanka, Erhard William	***EE***			†	***Jersey City, New Jersey***
Stansfield, James Gillespie	*Agr*	*52*	*		*Lawrenceville*
Stanyon, Leonard Leslie	*LAS*		*		*Toronto, Canada*
Staples, George McLellan	*Com*		*	†	*Dubuque, Iowa*
Stark, Max William	*Com*	*31*	*		*Hume*
Stark, Robert Watt, B.S., 1895	*Agr*		*	†	*Augusta*
Starr, Sidney Keller	*Agr*	*31*	*	†	*Belvidere*
Stateler, Ozell Trask	*Agr*	*35*	*	†	*Varna*
States, Bertha Grace	*LAS sp*			†	*Urbana*

Staup, Howard Irving	**Com**			**†**	**Chicago**
Stead, Rowland Wilson	CE	73	*	†	Park Ridge
Stedman, Jeanne Elizabeth	SS				Champaign
Steele, William	SS				Shelbyville
Steffens, George Harold	ChE		*	†	Chicago
Stege, George Richard	ChE		*	†	Chicago
Steidl, John Henry Joseph	LAS (SS)	9	*	†	Paris
Steigle, Carlton Fred	Agr	11	*		Plainfield
Stein, Bertha Marie	HSLAS	106	*	†	Blue Island
Steinbach, Carl, Jr.	ME		*	†	Chicago
Steiner, Jeannie Verle	HSLAS		*	†	Morrison
Steinert, Hildur Edith	LAS		*	†	Chicago Heights
Steinhauser, William August	AE	35	*	†	Berwyn
Steinmetz, John Armand	Agr	21	*	†	Pekin
Stephens, Hazel Margaret	HSAgr	65	*	†	Champaign
Stephens, John William	Com		*	†	Wichita, Kansas
Stephens, William Theodore	EE	76	*	†	Champaign
Stephenson, Hobart Gilmore	SS	3½			Woodlawn
Sternaman, Edward Carl	ME	71	*	†	Springfield
Stevens, Helen Ford	LAS	34	*	†	Oglesby
Stevens, John Grier	ME	71	*	†	Chicago
Stevens, Raymond La Moine	Com		*	†	Wabash, Indiana
Stevens, Roger Greenleaf	ChE	26	*	†	Chicago
Stevens, Walter Judson	LAS		*	†	Champaign
Stevenson, Edward Hiel	Agr	104	*	†	Hamilton
Stevenson, Josephine Reese	HSAgr		*	†	Urbana
Stewart, Beulah Louise	LAS	33	*	†	Freeport
Stewart, Cyrus Byron	**Agr**			**†**	**Carman**
Stewart, Edward Macon	AE	27	*		Kansas City, Missouri
Stewart, Gladys	**HSLAS**			**†**	**Paris**
Stewart, Walter Vonwert	LAS		*	†	Chicago
Stewart, William Ellis	Com	51	*	†	Columbus, Indiana
Stice, Ostin Angus	Agr	70	*	†	Waverly
Stidham, Melissa Geneva	Agr sp	60	*		Mahomet
Stiegemeyer, Clara Marie	LAS (SS)	61½	*	†	St. Louis, Missouri
Stiff, Ethel	LAS	105½	*	†	Harrisburg
Stilley, Earl Mason	LAS		*	†	Benton
Stillwell, Genevieve Maud	HSAgr (SS)	118	*		Urbana
Stillwell, Helen	LAS	105	*	†	Urbana
Stimson, Mary Elinor	SS	8			Des Moines, Iowa
Stinson, Howard Willis	Agr		*	†	Champaign
Stipes, George Walter	Com		*	†	Champaign
Stiritz, Benjamin Andrew	Agr	104	*	†	Murphysboro
Stoafer, Ollie Mae	LAS		*	†	Centralia
Stobie, Gladys May	HSLAS		*	†	Bunker Hill
Stock, Harry Thomas	SS				Springfield
Stockenberg, Ruben	ME	76	*	†	Rockford
Stockham, Douglas William	ME		*	†	Birmingham, Alabama
Stoevener, Leona Bertha	HSLAS		*	†	Raymond
Stoll, Laura Louise	**LAS**	**77**		**†**	**Chicago Heights**
Stoltey, Benjamin Franklin	LAS (SS)	97½	*	†	Champaign
Stoltey, Ethel Lynette	HSLAS	99	*	†	Urbana
Stone, William Samuel	LAS	77	*	†	Villa Ridge
Stoops, Donald Horatio	Agr		*	†	Nappanee, Indiana
Storckman, Clem Franklin	LAS		*	†	Mt. Carmel
Storm, Mabel Fern	SS	96			Morrisonville
Storer, Esther Susie	LAS	107	*	†	Centralia
Storer, Walter Henry	LAS	69½	*	†	Centralia
Story, Mrs. Jessie Gertrude	LAS	63½	*	†	Urbana
Story, William Murray	Com	22	*		Chariton, Iowa
Stouffer, Ernest Laurence	Arch	108	*	†	Decatur
Stover, Earl Bertram	REE	93	*		Oak Park
Stowell, Anne Genevieve Estelle	SS				Hannibal, Missouri
Strabel, Thelma Louise	LAS		*	†	Urbana
Straight, Leta Lenore	HSLAS	32	*	†	Fonda, Iowa
Strandberg, Avery	MinE sp	16	*		Lockport
Stratton, Grace Bruce	**LAS**	**130**		**†**	**Chattanooga, Tennessee**
Straub, Alma Marie	HSAgr	3	*		Kansas City, Missouri
Straub, Ernest Joseph	Eng (SS)	93	*	†	Kansas City, Missouri
Straub, Fred Guy	ChE	34	*	†	Chicago
Straub, Joseph Valentine	Agr	15	*	†	Kansas City, Missouri
Straub, Walter Fred	Chem	106	*	†	Chicago
Strauch, Donald Jay	SS	143½			Peoria
Strauss, Caryl Louise	LAS		*	†	Gibson City
Strawbridge, Ewart	Com	33	*	†	Chicago
Streed, Felix Lewis	MSE	102½	*	†	Waukegan
Strehlow, Robert	AE		*	†	Peoria
Stremmel, George Stephen	MdP	25	*	†	Macomb
Strickle, Robert McLean	**Agr**			**†**	**Bloomington**
Strode, Alsia May	Mus sp		*	†	Champaign
Stroede, Rudolph William	ME		*	†	Harvard
Strom, Myrtle Marguerite	**LAS**			**†**	**Galva**
Strong, Jesse Woodford	Com	113	*		Canton
Strong, Mildred Viola	HSLAS		*	†	Mazon
Strubinger, Joseph Roy	Agr	64	*		Sidell
Struckmeyer, Carl Henry	SS	30½			Hoyleton

Stuart, Herbert Edwin	*ME*	38	*		*Chicago*
Stubbs, Mary Christine	*LAS*		*	†	*Fowler, Colorado*
Stubbs, Sadie Levina	***Law sp***			†	***Lincoln, Nebraska***
Stubenrauch, Edgar Albert	*AE*	90	*	†	*Sheboygan, Wisconsin*
Studeny, Augustine Emil	*SS*	5			*Chicago*
Sturgeon, Lewis Fleming	*Agr*		*	†	*El Paso*
Sturgeon, Margaret Erma	*HSLAS*	33	*	†	*Fisher*
Suggs, Joseph Edward	*Agr*		*	†	*Fayetteville, Tennessee*
Suits, Edward Francis	*ME*		*	†	*Hillsboro*
Sukumlyn, Stephen Williams	*SS*	60			*Kief, North Dakota*
Sulger, Alden Harwood	*Agr*	109	*	†	*Terre Haute, Indiana*
Sullivan, Edna Frances	*HSLAS (SS)*	70	*	†	*Champaign*
Sullivan, George Cornelius	*ME*	33	*	†	*Highland Park*
Sullivan, Virgil Richard	*EE*		*	†	*Urbana*
Sultzberger, James Adam	*ChE*	22	*		*Kansas City, Missouri*
Summitt, James Levi	*LAS (SS)*	83½	*		*Pesotum*
Sun, En Lin	*SS*	134			*Washington, D. C.*
Sundar, Padena Malla	*EE*		*	†	*Khatmandu, Japan*
Sunkel, Helen Bernice	*HSAgr*		*	†	*Dudley*
Suppes, Elsie Mabel	*LAS*	96	*	†	*Somonauk*
Sussman, Irwin Joseph	*EE*	17	*	†	*Chicago*
Sutcliffe, Constance	*SS*	134			*Urbana*
Sutherland, Leland Goodrich	*Com*	29	*	†	*Sioux City, Iowa*
Sutton, Charles Reuel	*ChE*		*	†	*Ottawa*
Swaim, Earl Francis	***LAS***	**89**		†	***Chicago***
Swan, Grace Vernelle	*SS*	98			*Champaign*
Swanberg, Edmund DeForest	*EE*	107	*	†	*Worthington, Minnesota*
Swanberg, Marion Goerz	*HSLAS*	99	*	†	*Chicago*
Swango, Gale Loren	*ME*		*	†	*Macomb*
Swanson, Carl Ernest	*AE*	109¾	*	†	*Aledo*
Sward, Lawrence Howard	*Com*		*	†	*Chicago*
Swartz, Fay Wood, B.Mus., 1917	*Mus*		*		*Urbana*
Sweeney, Arthur Frantz	*Com*	97	*		*Chicago*
Sweigert, Leslie Ray	*AE*	36	*	†	*Sterling*
Swenson, Stanley Rudolf	*Com*	24	*		*Chicago*
Swick, Mary Ethel, A.B., 1915	***LAS sp***			†	***Urbana***
Swift, Dana Elery	*ME*	36	*	†	*Waverly*
Swift, Gertrude Lucile	*HSLAS*	98	*	†	*Streator*
Swigert, Blanche Belle	*LAS (SS)*	120	*	†	*Rapatee*
Sykes, Samuel Dwight	*ChE*		*	†	*White Hall*
Sylvester, Grace Darling	*LAS (SS)*	85½	*	†	*Chicago*
Szatunas, Frank John	*MdP*		*	†	*Melrose Park*
Szwajkart, Eugene Walter	*AE*	30	*		*Chicago*
Taggart, David Alexander	*LAS*	35	*	†	*Wooster, Ohio*
Talbot, Clarence Prescott	*Agr*	26	*		*Rochelle*
Talbot, Rachel Harriet	*LAS*	103	*	†	*Urbana*
Talbot, Violet Blanche	*LAS*	31	*	†	*Evanston*
Talbott, James	*Agr*	67	*	†	*Sterling*
Taliaferro, Virginia Beulah	*Mus*	28	*	†	*Topeka, Kansas*
Tanner, Newell Wilson	*Agr*		*	†	*Aurora*
Tanton, Glenwood Charles	*Agr*	112	*		*Washington*
Tanton, John Francis	*Com*		*		*Washington*
Tapscott, Charles Cameron	*LAS*	29	*	†	*St. Louis, Missouri*
Tarbox, Robin James	*Agr*	69	*	†	*Urbana*
Taubert, Carl August	*AE*		*	†	*Casselton, North Dakota*
Taylor, Chalmer Cline	*LAS*	34	*	†	*LeRoy*
Taylor, Charles Bagwell	*CE*	111	*		*East Chicago, Indiana*
Taylor, Charles Henry	*Agr*		*		*Earlville*
Taylor, Dorothy Leigh	*HSLAS*		*	†	*LaGrange*
Taylor, George Evans	*LAS*		*	†	*Centralia*
Taylor, Harold John	*LAS*		*	†	*Effingham*
Taylor, Kathleen	*HSLAS*	65	*	†	*Harrisburg*
Taylor, Lawrence Righter	*LAS*	102½	*	†	*Indianapolis, Indiana*
Taylor, Lucile	*LAS*		*	†	*Los Angeles, California*
Taylor, Margery Leeds	*Agr*	94	*	†	*Michigan City, Indiana*
Taylor, Meredith Delphine	*HSLAS*		*	†	*Genoa*
Taylor, Murlin Dwight	*ME*		*	†	*West Plains, Missouri*
Taylor, Norris Onslow	*ChE*	101	*	†	*Geneseo*
Taylor, Paul Canaday	*Com*	33	*	†	*Mooresville, Indiana*
Taylor, Robert Cook	*LAS*		*	†	*Earlville*
Taylor, Ross	*LAS*	33	*	†	*Carrier Mills*
Taylor, Ross Wallace	*LAS (SS)*	103	*	†	*Bement*
Taylor, William Quinn	*RME*	36	*		*Rockford*
Tedford, Julian Paul	*Com*		*	†	*Columbus Junction, Iowa*
Teichgraeber, Florine	***LAS***			†	***Emporia, Kansas***
Temple, George	*Com*	7	*	†	*Champaign*
Temple, Gilbert	*AE*		*	†	*Davenport, Iowa*
Tendick, John S	*CerE*		*	†	*Canton*
Ten Eyck, Irene Blanche	*HSLAS*	32	*	†	*Rockford*
Teninga, Alfred John	*Agr*	15	*	†	*Chicago*
Terpinitz, Jennie Grace	*LAS*	19	*	†	*Champaign*
Terwilliger, Ruth Mae	*LAS*		*	†	*Decatur*
Thal, Adolph Friederich	*ChE*	72			*Champaign*
Thal, Meta Dorothea	*Agr*		*	†	*Champaign*
Thal, Olga Elizabeth, A.B., 1916	*SS*	141½			*Champaign*
Thatcher, Frederick Robert	*Com*	107	*	†	*Elgin*

Theilen, Sophie	*LAS*		*	†	*Camp Point*
Thiele, Ernest William	*ChE*	*83*	*	†	*Chicago*
Thiem, Ezra George	*Agr*	*34*	*	†	*Chicago*
Thomas, Edward Harry	*MdP (SS)*	*34*	*	†	*Argenta*
Thomas, Harold Dewey	*Agr*	*69½*	*		*Bisbee, Arizona*
Thomas, John Theron	*LAS*	*67*	*	†	*Belleville*
Thomas, Joseph Hancock	*MdP*	*32*	*	†	*New Douglas*
Thomas, Nelson Reno	*Com*	*72*	*	†	*St. Louis, Missouri*
Thomas, Royal Price	*Agr*	*60*	*	†	*Sullivan, Indiana*
Thomas, William Hope	***MinE***			**†**	***Des Moines, Iowa***
Thompson, Alice Agnes	*LAS sp*	*11*	*		*Columbus, Indiana*
Thompson, Mrs. Anna R	***Mus sp***			**†**	***Harvey***
Thompson, Davis Wesley	*Agr*		*	†	*Sidney, Ohio*
Thompson, Helen Marian	*LAS*	*22*	*	†	*White Heath*
Thompson, Herle Allen	*Agr*	*46*	*		*White Heath*
Thompson, Leslie Clayton	*Agr*	*21½*	*		*Piper City*
Thompson, Lowell Ernest	*Com*	*30*	*	†	*Rantoul*
Thompson, Marjorie Wilma	***LAS sp***			**†**	***Sioux City, Iowa***
Thompson, Muriel Agnes	*HSLAS*	*56*	*	†	*Rantoul*
Thompson, Myra Elizabeth	*LAS*		*	†	*Chicago*
Thompson, Rex Roland	*LAS*	*60½*	*	†	*Berwyn*
Thompson, Richard Albert	*Com*		*	†	*Rio Janeiro, Brazil*
Thompson, Terry Jay	*Agr*		*	†	*Sparta*
Thompson, William Charles	*AE*	*80*	*		*Chicago*
Thompson, William L V	*Agr*	*67*	*	†	*Indianapolis, Indiana*
Thomson, Lillian Euphemia	*LAS*	*98*	*	†	*Creston, Iowa*
Thornsburgh, Thelma Theo	*LAS*		*	†	*Urbana*
Thornsburgh, Zada Goff	*LAS (SS)*	*113*	*		*Urbana*
Thornton, Maurice Emerson	*AE*	*64*	*		*Indianapolis, Indiana*
Thorp, William Walter	*Com*	*63*	*	†	*Rochelle*
Thorpe, Alonzo Valede	*LAS*		*	†	*Clinton*
Thorsell, Arthur Alfred	*ME*	*36*	*	†	*Rockford*
Thorud, Bert Marshall	*AE*	*105*	*	†	*Chicago*
Thory, Carrie Helen	***LAS sp***			**†**	***Chicago***
Thory, Hans Christian	*LAS*	*52½*	*	†	*Chicago*
Tice, Charles W	*Mus sp*		*		*Mt. Sterling*
Ticknor, Frederick Louis	*ME*		*	†	*Peoria*
Tiffany, Deedie	*HSAgr (SS)*	*3*	*	†	*Antioch*
Tiffany, Mary	*SS*	*38*			*Antioch*
Tiffin, Herbert Frederick	*ChE*		*	†	*Chicago*
Tiffin, Joseph Dow	*Agr*	*92*	*	†	*Walshville*
Tikotsky, Carl Raymond	*LAS ChE*	*40*	*	†	*Chicago*
Tilden, Ralph S	*LAS*	*23*	*		*Canton, Ohio*
Tillman, Reuben Carl	*Agr*		*	†	*Chicago*
Tillotson, Don Carlos	*Agr*		*		*Potomac*
Tillson, Vivian Earle	*Chem*	*102*	*	†	*Baker, Louisiana*
Tinkey, Otto George	***EE***	***141***		**†**	***Decatur***
Tkach, Mike Edward	*Com*		*	†	*Streator*
Todd, Josephine	*LAS*		*	†	*Arcola*
Todd, Leah Tina	*LAS*	*46½*	*	†	*Mattoon*
Todd, Roscoe Johnson	*Com*		*	†	*Elgin*
Toland, Jessie May, A.B., 1908	*LAS sp*		*	†	*Urbana*
Tolman, Robert Gardner	*Com*	*38*	*	†	*Yonkers, New York*
Tombaugh, Glen Deach	*Agr*	*91½*	*	†	*Pontiac*
Tomecka, Cyprian George	*SS*	*10*			*Lipton, Sask., Canada*
Tong, Teh-Chang	*SS*	*130*			*Hunan, China*
Tong, Towe	*Com*	*70½*	*	†	*Washington, D. C.*
Toole, William Rehse	*CE*		*		*St. Louis, Missouri*
Torgerson, Mamie Anette	*LAS*	*60*	*	†	*Chicago*
Torrence, Franklin Albert	*LAS*	*55*	*	†	*Chester*
Tour, Harry Bird	*AE*		*	†	*Humboldt, Iowa*
Tourtelot, Frederick Ignatius	*EE*	*33*	*	†	*Oak Park*
Touve, Lisette Magdalena	*Mus*	*28*	*	†	*Centralia*
Tower, Carleton Myron	*SS*	*104½*			*DeWitt, Arkansas*
Townsend, Albert Edward	*SS*	*8½*			*Cobden*
Townsend, Sidney Funk	*Agr*	*31*	*	†	*River Forest*
Trachman, Louis Roy	*AE*	*26*	*	†	*Joliet*
Trautmann, Harrison	*SS*				*New Richmond, Wisconsin*
Traxler, Dorothy Maye	*SS*	*24*			*Urbana*
Traxler, Elinor Evangeline	*Com (SS)*	*98*	*	†	*Urbana*
Treat, Edna Almeda	*Mus sp*	*5*		†	*Champaign*
Treat, Marion Louise	*LAS (SS)*	*5*	*	†	*Champaign*
Tredwell, John, Jr.	*Com*		*	†	*Chicago*
Tredwell, Lillie	*LAS*		*	†	*Chicago*
Trelease, Sidney Briggs	*Com*	*116½*	*	†	*Urbana*
Trenchard, Leonard Ambrose	*Com*	*26*	*	†	*Hardin, Missouri*
Trenchard, Wilma Lois	*LAS*	*98*	*	†	*Hardin, Missouri*
Trickle, Lenox Edmund	*REE*	*108*	*		*Urbana*
Trigg, Brainerd Upton	*MdP*		*	†	*Rockford*
Trost, Opal Winifred, B.S., 1916	*Agr*		*		*Urbana*
Troster, Marion Collier	*Com*	*98*	*	†	*Bellflower*
Trowbridge, Emma Cornelia	*LAS*	*30*	*	†	*Green Valley*
Trowbridge, Helen	*LAS*		*	†	*Green Valley*
Trowbridge, William Donald	*LAS*		*	†	*Green Valley*
True, Leighton J	*Com*			**†**	***El Cajon, California***
Truitt, Theodosia	*Mus*	*12*	*		*Chicago*

Trumbo, Elias Haeberlin	*Agr*	*33*	*	*Ottawa*
Trumbo, James Keeley Chester	*MdP*	*31*	* †	*Pontiac*
Tsang, Chuk Yee	*LAS*		* †	*Canton, China*
Tsang, Wai Kwong	*CE (SS)*	*34½*	* †	*Hongkong, China*
Tuan, Wei	*ME*		* †	*Mengwha Yunnan, China*
Tucker, Arthur	*ME*		* †	*Flat River, Missouri*
Tucker, Hazel May	*SS*			*Champaign*
Tucker, Harold James	*MinE*	*29*	*	*McDowell*
Tucker, Marian	*LAS*	*23*	* †	*Champaign*
Tucker, Rolland Henry	***Agr***	***100***	†	***Minonk***
Tucker, William Henry	*ChE*	*40*	* †	*Morrison*
Tukey, Harold Bradford	*LAS*	*104*	* †	*Berwyn*
Tully, Thomas Henry	*LAS*		* †	*Elmwood*
Turell, Vera	*SS*	*1½*		*Champaign*
Turley, Harold Edwin	*Agr*	*104*	* †	*Burney, Indiana*
Turley, Odie Douvin	*Agr*		* †	*Illiopolis*
Turnbull, Clifford Griffith	***Agr***	***67***	†	***Urbana***
Turnbull, Helen Eleanor	***LAS***	***21***	†	***Urbana***
Turner, Harold Horton	*ME*	*43½*	*	*Chicago*
Turner, Jewett Mattox	*Agr*		* †	*Chicago*
Turner, Luther Martin	*EE*	*126*	*	*Beardstown*
Turner, Merle Bernice	*LAS (SS)*	*63*	* †	*Champaign*
Turner, Nellie Margaret	*LAS*		* †	*Urbana*
Turner, Sheldon Knight	*Com*		* †	*Evanston*
Turner, Wayne Isaac	*Agr*	*67*	* †	*Urbana*
Turnquist, Elmer Nels	*LAS*	*91*	*	*Cantar*
Turnquist, Ruby Marie	*HSAgr*	*32*	* †	*Chicago*
Turpin, Charles Udell	*Com*	*67*	*	*St. Louis, Missouri*
Tutwiler, Robert Evans	*Com*	*24*	* †	*River Forest*
Twigg, Josephine Sybil	*LAS*		* †	*Brocton*
Twigg, Marguerite Teresa	*HSLAS*	*25*	*	*Brocton*
Twitchell, Ruth	***LAS***	***94***	†	***Belleville***
Twitchell, Standlee Irvin	*LAS*		* †	*Belleville*
Tye, Helen Genevieve	*LAS*	*27*	* †	*Kewanee*
Tyler, Allen Charles	*LAS sp*		* †	*Granville*
Udinski, William Philip	*ChE*	*80*	* †	*Jersey City, New York*
Ueberrhein, George Francis	*Agr*		* †	*Peoria*
Uehren, Estelia Anna	*HSLAS*	*60*	* †	*Galena*
Umfleet, Mary Elizabeth	*Mus sp*		* †	*Grayville*
Underhill, George Ellsworth	*EE*	*29*	* †	*Elgin*
Unger, George Walter	*AE*	*107*	*	*Oak Park*
Uthoff, Pearl Kathryn	*LAS*	*66*	* †	*Princeton*
Utley, Ross James	*Agr*	*10¾*	* †	*Chicago*
Utley, Theodore Henry	*Agr*		* †	*Sterling*
Utt, Arthur Holliday	*MdP*	*23*	* †	*Springfield*
Vail, Charles Winfield	*LAS*	*31*	* †	*Springfield*
Vail, Edna Cora	*HSLAS*	*50*	* †	*Springfield*
Valentine, Edwin Ernest	*AE*	*49*	*	*Green Bay, Wisconsin*
Valentine, Frank Wayne	*Chem*	*108*	* †	*Mt. Vernon*
Valentine, Roger Wendell	*SS*	*8*		*Mt. Vernon*
Van Alstine, Ernest	*SS*			*Urbana*
Van Bramer, Douglas Francis	*Agr*	*32*	* †	*Chicago*
Vance, Mahleon S., A.B., 1904	*SS*			*Oblong*
Vanderpool, Arthur Meritt	*ME*	*72*	* †	*Morris*
Vanderpool, Irene Edith	*LAS*		* †	*Morris*
Vandervort, Maurice Linwood	*AE*	*22*	*	*Kankakee*
Van Deusen, John LeRoy	*CE*	*86*	* †	*Greenville*
Van Doren, Esther Margaret	*LAS (SS)*	*6*	* †	*Champaign*
Van Doren, Harry Morris	*LAS*		* †	*Litchfield*
Van Doren, Paul Miletus	*Com*		* †	*Urbana*
Van Inwegen, Helen	*Agr*	*33*	* †	*Chicago*
Van Meter, Verl Fred	*Com*	*21*	*	*Bushnell*
Van Nest, Percival Christ	*EE*	*74½*	* †	*Chicago*
Van Pelt, Willis	***Agr***		†	***Chicago***
Van RynVan Alkemade, Leendert William	*LAS*	*26*	*	*Chicago*
Van Tuyl, Marie Inez	*LAS*		* †	*West Point, Iowa*
Van Vleet, Ruth Hazel	*LAS*	*29*	*	*West Chicago*
Vaughn, John Irving	*LAS*		* †	*Urbana*
Vaught, Sallie McCormick	*Lib*	*51*	* †	*Urbana*
Veir, Harry S	*LAS*		*	*Mason City, Iowa*
Veirs, Dean Moorman	*SS*	*65*		*Urbana*
Veitch, Mildred Margaret	***Agr***		†	***Grand Forks, North Dakota***
Vennum, Mary Durham	*Law*	*28*	*	*Onarga*
Veronda, Maurice	*Law*	*112*	* †	*Carbon Hill*
Vial, Harold Craigmile	*Agr*	*105*	* †	*LaGrange*
Vial, Helen Gertrude	*HSLAS*	*82*	* †	*LaGrange*
Vial, Nathaniel Smith	*Agr*	*95½*	* †	*LaGrange*
Vidal, Stephen Peter	*MSE*	*69*	*	*Gallup, New Mexico*
Vliet, Elmer Bennett	*ChE (SS)*	*112*	*	*Joliet*
Vogele, Alfred Charles	*Agr*	*106*	* †	*Urbana*
Vogele, Leon Otis	*Com*		* †	*Urbana*
Vogt, Frank Walter	*CE*	*36*	* †	*Chicago*
Vohs, Linz Vincent	*Agr*		* †	*LaSalle*
Von Ohlen, Floyd William George	*Agr*	*64*	*	*Hinckley*
Voorhees, Evangeline Mae	*LAS*	*44*	*	*Chicago*
Voorhees, Vanderveer	*ChE*	*85*	* †	*Alton*

Vopat, Joseph Francis	CE	106	*	†	Oak Park
Wade, Sidney	LAS			†	La Grange
Wagenknight, Algernon Roberts, Jr.	EE	5	*	†	LaGrange
Wager, Maurice	ME	36	*	†	Milwaukee, Wisconsin
Wagner, Esther Angelica	HSLAS (SS)	91½	*	†	Forest Park
Wagner, Everett Emerson	LAS		*		Metamora
Wagner, Lauda Cordula	SS	3			Chicago
Wagner, Roberta Jennie	LAS	92	*	†	Chicago
Wagner, Wesley Gephart	Agr	65	*	†	Urbana
Wagstaff, Charles Dudley	Agr	111	*		Tipton, Indiana
Wahl, George John, Jr.	EE		*	†	Chicago
Wakeland, Fred Raymond	Agr (SS)	100	*	†	Hoopeston
Waldo, John Hardenbergh	CerE	75		†	Urbana
Walk, Marney Lawrence	Com	46½	*		Sigel
Walker, Helen	HSLAS (SS)	99	*	†	Clinton
Walker, Laura	HSLAS		*	†	Clinton
Walker, Margaret	LAS	60	*	†	Kansas City, Missouri
Walker, Nelle	SS	85			Carterville
Walker, Paul	Agr		*	†	Palestine
Walker, Pearl White	LAS	6	*	†	Golconda
Walker, Russell Telis	SS	110			Dongola
Walker, Sarah Frances	HSLAS		*	†	Clinton
Walker, Volney Denchar	ME	36	*	†	Cicero
Walkup, Ione Dorothea	LAS		*	†	Champaign
Wall, Charles William	Com		*	†	Marion, Indiana
Wall, Helen Isabel	LAS		*	†	Staunton
Wallace, Cora Elizabeth	Mus	101	*		Champaign
Wallace, Edwin	Agr	28	*	†	Assumption
Wallace, Elwin	Agr	31	*	†	Assumption
Wallace, Ruth	LAS	21	*	†	Homer
Waller, Olga Louise	Lib		*	†	Kewanee
Waller, Willard Walter	LAS		*	†	Grayville
Wallis, Mrs. Grace Hite	SS	82			Salem
Wallis, May Avona	LAS	32	*		Centralia
Walquist, Arthur Rudolph	AE		*	†	Belvidere
Walsh, Edward John	LAS	24½	*		Herscher
Walsh, John Edward, B.S., 1917	SS	148½			Peoria
Walter, Fred	LAS	67½	*	†	Perry, Missouri
Walter, Grace Isabel	LAS	49	*	†	Easton
Walters, Irma Lamson (Mrs.)	LAS		*	†	Chicago
Walworth, Stanton Eugene	Agr	101	*	†	Urbana
Wamsley, Adelaid May	HSAgr	87	*	†	Quincy
Wamsley, John Henry	Com	30	*	†	Tuscola
Wanderer, Elizabeth Catherine	HSLAS	61	*	†	Oak Park
Wanzer, Sidney	Agr			†	Chicago
Warbritton, Harriet	SS	11			Ladoga, Indiana
Ward, Cecilia Blair	HSLAS	99	*	†	Urbana
Ward, Charlotte Baldwin	HSLAS	34	*	†	Urbana
Ward, Dan Putnam	Agr	15	*	†	Marshalltown, Iowa
Ward, Garland Francis	Com		*	†	Virginia
Ward, Hiley Lemen	LAS		*	†	Du Quoin
Ward, Janet	HSLAS	97	*	†	Chicago
Ward, Justus Conrad	Chem	34	*	†	Clinton
Ward, Mary Myrtle	LAS (SS)	34	*	†	Glasgow
Ward, Mary Winifred	LAS	98	*	†	Saybrook
Ward, Raymond Lee	Com	67	*	†	Bement
Ware, Edith Cavitt	Lib		*	†	Northport, Washington
Warmolts, Cornelia Sara	HSLAS	87	*	†	Oregon
Warmolts, Earl Hugh	MdP	17	*	†	Oregon
Warner, Eleanor Frances	Lib		*	†	Berea, Ohio
Warren, Alice	SS				Hinsdale
Warren, Anna May	LAS	137	*		Mansfield
Warren, Dorothy	HSLAS	66	*	†	Watseka
Warren, Harry Theodore	Chem	34	*	†	Centralia
Warren, Milton Willard	Agr	31	*	†	Mansfield
Warren, Nellie Pearl	LAS		*	†	Mansfield
Warren, Paul Gunthrop	Com		*	†	Riverside
Warren, Ralph Rowe	CE	95	*		LaSalle
Warren, Ruth	LAS		*	†	St. Louis, Missouri
Wascher, Herbert Frederick	Agr	69	*		Champaign
Washburn, Howard Caldwell	Agr		*	†	Kentland, Indiana
Washburn, Raymond Allen	LAS	72	*		Kewanee
Washburn, Willard Orville	Com		*	†	East Moline
Waterbury, Harry Bremner	Agr	31	*	†	La Grange
Waterman, William Layton	CE	36	*		Chicago
Waters, Lee William	Agr		*		Urbana
Watkins, Bertha Maie	LAS		*	†	Kankakee
Watkins, Bessie Birdell	HSLAS		*		Cairo
Watson, Constance	LAS		*	†	Urbana
Watson, Ferris George	LAS		*	†	Danville
Watson, Grace Gamron	LAS		*	†	Arthur
Watson, Malcolm Hamilton	Agr		*	†	Urbana
Watson, Raymond Vance	Agr	31	*	†	Clinton
Watt, Glendora	SS	4			Champaign
Watt, Margaret Louise	LAS	36	*	†	Winchester
Watt, Russell A.	AE	105	*	†	Champaign

Wattleworth, Charles	*CE*		* †	*Chicago Heights*
Watts, Amos Holston	*LAS*	*67*	* †	*Nashville*
Watts, Grace Minnie	*LAS*		* †	*Saunemin*
Watts, Helen Mae	*HSLAS*	*60*	* †	*Urbana*
Watts, Lenore	*SS*	*8½*		*Sumner*
Watts, William Wadsworth	*LAS*		* †	*Nashville*
Weatherford, Harold Lorraine	*AE*		* †	*Chicago*
Weaver, Vesta Belle	*HSLAS*		* †	*Henry*
Webb, Brent Girdler	*AE*	*87*	* †	*Louisville, Kentucky*
Webb, Mary Louise	***LAS***		**†**	***Chicago***
Webb, Stanley George	*EE*	*30*	* †	*Bloomington*
Webb, Willis Crawford	*Agr*		* †	*Chicago*
Webber, Robert Alfred	*ChE*	*99*	*	*Urbana*
Weber, Fredrik Gottlieb	*Agr*	*57½*	* †	*Tower Hill*
Weber, Pauline Barbara	*LAS*	*30*	* †	*Olney*
Webster, Dee Enlow	*LAS*		* †	*Cairo*
Webster, Edwin Herbert	*ChE*	*35½*	* †	*Chicago*
Webster, Ralph Daniel	*EE*		* †	*Kansas City, Missouri*
Wedge, Leslie B	*Com*	*100*	* †	*Kewanee*
Weeter, Nellie Mae	*SS*	*79¾*		*Rimersburg, Pennsylvania*
Weilepp, Paul Francis	*EE*		*	*Decatur*
Weiner, Abraham	*AE*	*34*	* †	*Chicago*
Weingaertner, Paul Herbert	*CE*		* †	*Belleville*
Weinshank, Harry Theodore	*ME (SS)*	*66*	*	*Indianapolis, Indiana*
Weir, Amy Azalea	*HSLAS*	*86*	* †	*Marshall*
Weir, Edna June	*LAS*	*16*	* †	*Freeport*
Weir, Mary Jane	*HSAgr*	*31*	* †	*Marshall*
Weir, Pearl	*HSAgr*	*100*	* †	*Marshall*
Weise, Nicholas George	*Agr*	*89*	*	*Chicago*
Weiss, John Nelson	*Agr*	*29*	* †	*Geneseo*
Weiss, Marion Virginia	*HSAgr*	*141*	* †	*Pukwana, South Dakota*
Weitknecht, Helen Bernice	*LAS*	*33*	* †	*Mitchell, Indiana*
Welch, Charlotte Bruce	*LAS*	*32*	* †	*Waukegan*
Welch, Mary Mildred	*LAS*	*33*	* †	*Waukegan*
Welch, Stanley Edwin	*Com*	*18*	*	*Chicago*
Welch, Vyrna Valeria	*SS*	*6¼*		*Urbana*
Welensky, David A	*MdP*	*36*	* †	*Chicago*
Wellington, Guy	*SS*			*Passaic, New Jersey*
Wellman, Orpha May	*SS*	*135⅛*		*Champaign*
Wells, Leroy Myron	*Agr*	*17*	*	*Tonington, Connecticut*
Welsh, Kathryn Clare	*HSLAS*	*94¾*	* †	*Bradford*
Wendelsdorf, Chester Willis	*LAS*		* †	*Manteno*
Wenke, Vernon Arthur	*Com*	*65*	* †	*Geneseo*
Wenz, Carolyn Louise	*SS*	*127⅙*		*Paris*
Wenzelmann, Naomi Ruth	*SS*	*7*		*Galesburg*
Wenzlaff, Solomon Henry	*Law*	*56*	*	*Armour, South Dakota*
Wenzlaff, William Bradford	*Com*	*12*	*	*Armour, South Dakota*
Werner, Elsie Ann	***LAS***		**†**	***Saybrook***
Werner, Harry William	*ME*	*16*	* †	*Blue Island*
Werstler, William Joseph	*Agr (SS)*	*70*	* †	*Chicago*
Wert, Selma Leotta	*HSAgr*	*29*	* †	*Kendallville, Indiana*
Wesch, Leda Pauline	*LAS*	*34*	* †	*Arcola*
Wessels, Marie	*MdP*	*66*	* †	*Quincy*
West, Marion Isabel	*HSAgr (SS)*	*101*	* †	*Loda*
West, Ray Clifford	*Agr*		* †	*Biggsville*
Westbery, Carl Bennette	*ME*		* †	*Rankin*
Westcott, Elsworth Johnson	*CE*		* †	*Maywood*
Westcott, Philip Spring	*REE*		* †	*Oak Park*
Westenhaver, LeRoy John	*MinE*	*103*	* †	*Chicago*
Westerfeld, Sidney Arthur	*Com*		* †	*Chicago*
Westerman, Lena Mary	*SS*	*7*		*Mound City*
Westerman, Richard Wilbur	*LAS*	*33*	* †	*Quincy*
Westfield, Norman Elmer	*Agr*	*34*	*	*Chicago*
Westlund, Arthur Peter	*Com*		* †	*Chicago*
Weston, Jessie Beatrice, B.L.S., 1917	*LAS*		*	*Urbana*
Wettergren, Wesley Kern	*LAS*	*15½*	* †	*Rockford*
Wettstein, Robert Payne	*Com*		†	*Chicago*
Wetzell, Glen Kennedy	*Agr*	*62*	* †	*Colita*
Whalin, Edwin Ansil	*Agr*	*30*	* †	*Rose Hill*
Whalin, Oren Leslie	*Agr*	*99*	* †	*Rose Hill*
Wharmby, Ada	*LAS*		* †	*Urbana*
Wharton, Wayne Thompson	*Com*	*60*	* †	*Moline*
Wheatley, Bernice Katheryn	*HSLAS*		* †	*Seymour*
Wheeler, Helen Marguerite	*HSLAS*		* †	*Champaign*
Wheelhouse, Elizabeth Lux	*HSLAS*	*102*	* †	*Decatur*
Whitchurch, Louise Augusta	*HSLAS*		* †	*Salem*
Whitcomb, Edward Bryan	***Agr***		**†**	***Ferris***
White, Catherine Nell	*LAS*	*75*	*	*Urbana*
White, Earl Leonard	*Com*		* †	*Belvidere*
White, Edna Blanche	*Lib*		* †	*Galesburg*
White, George Russell	*Agr*		* †	*Georgetown*
White, Homer	***MdP***	***25***	**†**	***Pawnee***
White, Leonard Newton	*AE*		* †	*Little Rock, Arkansas*
White, Merla Marie	*HSAgr*	*46*	* †	*Urbana*
White, Russell Sherman	*Com*	*92*	* †	*Chicago*
White, William Lloyd	*LAS*		* †	*Fowler, Indiana*

White, Winifred Elizabeth Katherine	LAS	102	*	†	Chicago
Whitelaw, Charles Hugh	Com	32	*		Seattle, Washington
Whiteside, Gladys Elizabeth	Com	3	*	†	Moline
Whitford, Hobert S	Agr	53	*	†	Clayton
Whitman, Beulah Mae	HSLAS	69½	*	†	Cameron
Whitman, George Bruington	Agr	89½	*		Cameron
Whitman, Vera Ray	HSAgr sp		*		Cameron
Whitmore, Charles Steinhart	Agr		*	†	Wilmington
Whitney, Harold Bruce	CE	73	*	†	Silver Spring, Maryland
Whitney, Merlyn Ruloffe	Com	118	*	†	Marion, Ohio
Whitten, George Arion	AE (SS)	36½	*	†	Urbana
Whitten, Mabel Doris	LAS	101	*	†	De Kalb
Whitten, Phil Roseman	Mus		*	†	Urbana
Whittier, Marshall Waldo	ME		*	†	Kansas City, Missouri
Whittum, Florence Lucille	HSLAS	69	*	†	Herscher
Whitver, Howard Clifford	Com	104½	*	†	Urbana
Wiedemann, Mildred Delia	LAS		*	†	Harvey
Wiedemann, Newell Evert	Arch	94	*		Rector, Arkansas
Wien, Julius Harry	EE	104	*	†	Chicago
Wiersema, Henry	EE	50	*	†	Fulton
Wikoff, Ruth Isabel	LAS	99	*	†	Chicago
Wilber, Harold Courtney	Com	99	*		Potomac
Wilcox, Claude Vernon	SS	3½			Carlyle
Wild, Alfred Ames	EE	38	*	†	Kansas City, Missouri
Wilder, Charles Lucas	Com	41	*	†	Peoria
Wiles, Albert Donald	Com		*	†	Indianapolis, Indiana
Wiley, Besse Lois	LAS	70	*	†	Edgerton, Ohio
Wiley, Mildred Juanita	LAS		*	†	Camargo
Wilhoit, Arthur	Agr		*	†	Kansas
Wilhoit, Bernice Lesley	LAS		*	†	Westfield
Wilhoit, Nina Marguerite	LAS	30	*	†	Westfield
Wilk, Harry Arthur	LAS (SS)	46	*		Kinmundy
Wilkey, Lucile Vivien	LAS		*	†	Urbana
Wilkins, Ernest Jesse	LAS	104½	*	†	St. Louis, Missouri
Wilkinson, Cecil Herbert	Agr	62	*	†	Charleston
Wilkinson, Porter Augustus	SS	22			Bethany
Wilkinson, Scott Jackson	MdP (SS)	33	*	†	Bethany
Will, Howard Austin	LAS		*	†	Ava
Willard, Charles Julius, B.S., 1910	SS				Manhattan, Kansas
Willard, Ruth Frances	LAS	31	*		Decatur
Willcox, Harry J	Mus sp		*	†	Ithaca, New York
Willett, Donald Biggar	CE	28½	*	†	Oak Park
Willey, Gilbert Stewart	SS	90½			Warren, Minnesota
Williams, Beulah Naomi	LAS	65	*	†	Hume
Williams, Blanche	Lib		*		Muncie, Indiana
Williams, Charles Allyn	LAS sp		*	†	Iowa City, Iowa
Williams, Donald Eugene	Agr		*		Woodland
Williams, Earle Joubert	MSE	28½	*		Cobden
Williams, Evan Owen	SS	8			Lime Spring, Iowa
Williams, George Alfred	LAS	102	*	†	Cleveland, Ohio
Williams, Grace Ethel	LAS	95	*	†	Watseka
Williams, Helen Gertrude	LAS	27	*	†	Westfield
Williams, Helen Jackson	LAS	103	*	†	Streator
Williams, Irene	HSLAS	92	*	†	Ravanna, Missouri
Williams, John Bradley	Com	93	*	†	Alta
Williams, Norman Baldwin	Com	23	*	†	Streator
Williams, Ora Anna	LAS		*	†	Woodland
Williams, Paul Albert	Com	35	*	†	Freeport
Williams, Paul Ransome	Com		*	†	Aurora
Williams, Raymond Clendenin	MdP	31	*	†	Ava
Williams, Ruby	LAS sp			†	Shelbyville
Williams, Walter Higgins	Agr	34	*		La Moille
Williams, Wanda Eleanor	HSLAS		*	†	Springfield
Williamson, Harlan Aretus	Com	90	*		Jacksonville
Williamson, Kenney Ernest	Com		*	†	Griggsville
Williamson, Marian	LAS (SS)	10½	*	†	Champaign
Williamson, Maud, A.B., 1909	SS				Palacios, Texas
Willis, Robert Elmer Jr.	Com		*		Anna
Willison, Genevieve Irene	Com	18	*	†	Chicago
Willits, Ward Maurice	Com	100	*		Harvey
Wills, Ross Everett	Com		*	†	Griggsville
Willson, Jennie Fae	SS	107			Stonington
Wilner, Edmond Charles	Com			†	Chicago
Wilson, Abram Smith	ChE		*	†	Blairstown, New Jersey
Wilson, Ashbel Ray	SS	88			Hutsonville
Wilson, Carna Ethel	LAS	23	*		Chicago
Wilson, Chester Leon	LAS		*		Paris
Wilson, Harry Jay	ME		*	†	Rock Grove
Wilson, John Hawley	Com		*	†	Peoria
Wilson, Joseph Charles	EE	5	*	†	La Grange
Wilson, Kenneth Leon	Agr	41	*	†	Atwood
Wilson, Lillian Margaret	LAS		*	†	Canton
Wilson, Lois Josephine	Com		*	†	Morris
Wilson, Lula	SS	11			Paris
Wilson, Lyndon Rutledge	EE	81	*		Bloomington
Wilson, Mary Anna	SS	4			Hall, New York

Wilson, Robert Costin	CE		* †	Chicago
Wilson, William Paterson	LAS (SS)	106	*	Coal City
Wilson, Stephen Askew	LAS	32½	* †	Chicago
Wilson, Wesley David	Mus		* †	Urbana
Wilson, Winifred	LAS	110	* †	Atwood
Wilton, Oliver Nenis	ME		* †	Lake Villa
Winchester, Bessie Frances	HSLAS	32	* †	Urbana
Wine, Frances Esther	LAS		* †	Chicago
Wine, Lois Marie	LAS		* †	Mount Morris
Winkelmann, Roland Earl	Law	28	* †	Belleville
Winklepleck, Velda Pearle	LAS		* †	Lexington
Winkler, Ross Wayne	SS	92½		Newman
Winn, Ferne Abbie	HSAgr	14	* †	Richland Center, Wisconsin
Winship, Elspeth Lorain	HSLAS		* †	Tiskilwa
Winship, Mary Alameda	HSLAS	98	* †	Tiskilwa
Winslow, Mary Evelyn	Mus		*	Fairmount, Indiana
Winter, Elijah	Agr	81	* †	Annawan
Winter, Floyd Leslie	LAS		* †	Wenona
Winterhaler, Justine	HSLAS		*	Lake Charles, Louisiana
Wintermute, Imogene	Lib	31	* †	Delaware, Ohio
Winters, Harriet Elizabeth	Com		†	Urbana
Winters, Lawrence Morse	Com	100	* †	Chicago
Wirth, Fremont Philip	SS			Waterloo
Wischmeyer, Edwin Carl	LAS		* †	Waterloo
Wise, Althea Mary	SS	7½		Newton
Wise, Eleanor Lucille	HSLAS	35	* †	Cerro Gordo
Witbeck, Helen Elisabeth	LAS	95	* †	Belvidere
Withrow, Frances Louise	LAS	64	* †	Springfield
Woerman, Lillian Honens	HSLAS	99	* †	St. Louis, Missouri
Wolcott, Hubert Newton	ChE		*	Chicago
Wold, Leaman Archer	ChE (SS)	41	* †	Rockford
Woleben, Wilbur Townsend	Agr	100	* †	Chicago Heights
Wolens, Joseph	EE		* †	Chicago
Wolf, Sidney Kellum	EE		* †	Baton Rouge, Louisiana
Wolff, Aline Jeannette	HSLAS	101	* †	Urbana
Wolff, David Alexander	LAS		* †	Champaign
Wolff, Jerome Ellis	Com		* †	Urbana
Wolfram, Grace Ellen	SS	7		Capron
Wolgast, Helen Violet	HSLAS	32	* †	Danforth
Wolter, Herbert F	Agr	99	* †	Danville
Wolter, Julius William	LAS		* †	Lemont
Wong, Marvin Yik Hsen	Com (SS)	87	* †	Shanghai, China
Woo, Thomas Tsze Chung	LAS	60	†	China
Wood, Bruce Russell	Agr		*	Clinton
Wood, Charles Clifford	CE	76	* †	Flint, Michigan
Wood, Helen Louise	LAS	64	* †	Pekin
Wood, Paul Washington, Jr.	AE	36	* †	Carrollton
Woodbridge, Dudley Warner	RCE	104	* †	Seattle, Washington
Woodrow, Raymond Burns	Agr	125	*	Green Valley
Woods, Florence Mary	LAS		* †	Champaign
Woods, Frances Octavia	LAS	107	* †	St. Louis, Missouri
Woods, Grace Blacklidge	LAS (SS)	67½	* †	Sterling
Woods, Lenna Adaire	LAS (SS)	100½	* †	Champaign
Woods, Robert	Agr sp	16	* †	Cleveland
Woody, Gladys Marie	LAS	29	* †	Urbana
Woolery, Anna Marie	SS	7½		Urbana
Woolley, Russell Brooks	SS	12		Champaign
Worley, Jessie Cassandra	LAS	31	* †	El Paso
Wormley, Lorentz Englehart	MinE		* †	Kinmundy
Worner, Henry Harold	Agr	102	* †	San Jose
Worthington, Frank Lancaster	ME		* †	Doylestown, Pennsylvania
Wright, Clarence Salmon	ME		* †	Oak Park
Wright, DeWitt	EE		* †	Wenona
Wright, Francis Marion	LAS (SS)	52	* †	Urbana
Wright, Genevieve Clarissa	HSAgr		†	Chicago
Wright, George Hoyle	Com	20	* †	Pelham Manor, New York
Wright, Mildred Winifred	Agr	104	* †	Okauchee, Wisconsin
Wright, Paul McCown	CE		*	Crawfordsville, Indiana
Wright, William C	SS	7		New Market, Indiana
Wrobke, Dewey Frederick	Com	33	* †	Maywood
Wroby, Norman William	ChE (SS)	82½	* †	Chicago
Wu, Thomas	Eng		*	Hupeh, China
Wuertenbaecher, Harry Edward	AE	68	*	St. Louis, Missouri
Wulfekoetter, Gertrude	Lib		* †	Cincinnati, Ohio
Wyeth, Ola May	SS	73		Charleston
Wylde, John Robert	Agr		* †	North Adams, Massachusetts
Wylie, Howard Oscar	Agr		*	Paxton
Wyne, Clarinda Jean	LAS	54½	* †	Vermont
Yackey, Otillia Emma	HSLAS	102	* †	St. Louis, Missouri
Yaeger, Edgar Gabriel	LAS (SS)	18½	* †	New Baden
Yaeger, Mrs. Margaret Folkaline	SS	7½		Kansas City, Kansas
Yakel, Ralph	SS	42		Rantoul
Yale, Charles Ernest	Agr	31	* †	Aurora
Yamada, Yasuzo	CE	30	* †	Kagoshima, Japan
Yamamoto, Kohachiro	Chem	31	* †	Wakayamaken, Japan
Yamashita, Narahei	Com	75	*	Osaka, Japan

Yamoshita, Yeichi	SS	7			Tokio, Japan
Yang, Tsao Shing	SS	150½			Washington, D. C.
Yapp, William Wodin, M.S., 1914	LAS		*		Urbana
Yeager, Harold Caldwell	Com	32	*	†	Maywood
Yeager, Leland Edward	LAS	103	*	†	Maywood
Yeager, Lloyd Hervey	ChE	26	*	†	Douglas, Arizona
Yearsley, Mary	LAS (SS)		*	†	Urbana
Yelton, Lynn Boyd	**LAS**	**31**		**†**	**Danville**
Yerington, John George	Agr	99½	*		Waterrliet, Michigan
Yockey, Merle Albert	Com	101	*	†	Beardstown
Yockey, Wallace Loraine	Com		*	†	Beardstown
York, Horace Martin	SS	7½			Cowden
York, Reginald Allen	EE	31	*	†	Chicago
Yoshikawa, Yoshio	EE	34	*	†	Honolulu, Hawaii
Yost, Howard Allen	LAS		*		Kansas City, Missouri
Young, Arthur William	MdP		*	†	Aurora
Young, Edmund Valient	MdP		*	†	Aurora
Young, Florence	HSLAS	32	*		Newman
Young, Garred Francis	CE		*	†	Pawnee
Young, Laura Effie	LAS		*	†	Metropolis
Young, Nellie	LAS	78	*	†	Salem
Young, Philip Page	Com	68	*	†	Chicago
Young, Russell K	AE	25	*	†	Bloomington
Young, William Morris	EE		*	†	Omaha, Nebraska
Youngblood, Alta Miriam	HSLAS	61	*	†	Hoopeston
Yu, Jih Chuan	CE		*	†	Chicago
Zearing, Dorothy Anne	LAS	31	*		Ladd
Zehr, George Andrew	EE	107¾	*	†	Washington
Zeiders, Emil Philip	Agr	33	*	†	Mansfield
Zeller, Laurance Willard	Com	104	*	†	Brazil, Indiana
Zellhoefer, Edna Lila	LAS (SS)	76	*	†	Le Roy
Zenor, Flora Bernice	HSAgr		*	†	Hennepin
Ziegler, John Wesley	ChE	73	*		East St. Louis
Ziegler, William Arthur	EE	37	*	†	East St. Louis
Ziemann, Harry John	AE		*	†	Milwaukee, Wisconsin
Zika, Marie Lydia	HSAgr		*	†	Chicago
Zimbelman, Frank Arthur	EE	27	*	†	Aurora
Zimmerman, Garnet Berenice	LAS	26	*	†	Oakland
Zimmerman, Harry Gustav	LAS	65	*	†	Peru
Zimmerman, John Harvey	ME		*	†	Chicago
Zimmerman, William K	SS	8			Harvel
Zimmermann Albert Jobst	**AE**			**†**	**Peoria**
Zinser, Clayton Meves	Com		*	†	Peoria
Zolotkoff, Hyman Jacob	LAS (SS)	54½	*		Chicago
Zuckerman, Benjamin Selman	AE	71	*		Chicago

COLLEGE OF MEDICINE

Name	Year	Residence
Alesen, Lewis Albert	1	Detroit, Michigan
Allen, George Albert	2	Clinton
Anderson, Richard Elseph, B.S.	4	Lynn Center
Aries, Philip	1	Chicago
Armstrong, Clifford Oakley, B.S.	3	Bloomington
Arnquist, A Samuel	2	Richmond, Wisconsin
Ashley, Rea Ernest	2	Denver, Colorado
Bacon, Carl Alfons	1	Chicago
Bairnson, George Andrew	3	Chicago
Baratta, Fred Louis	1	Chicago
Baxter, Lewis Thomas	2	Astoria
Beilin, David Solomon, B.S.	3	Chicago
Blair, Edgar Theron	2	Chandlerville
Blum, David Mitchell	1	Des Moines, Iowa
Blumenthal, Aaron	1	Chicago
Bogue, Arthur Reuben	2	Savanna
Brams, Julius	1	Chicago
Bronson, Paul Jones	1	Terre Haute, Indiana
Brosius, Ernest Julius, D.D.S.	1	Minneapolis, Minnesota
Brown, Lyle Leland	4	Crookston, Minnesota
Browne, William Harcourt	1	Chicago
Burkett, Richard Clare	1	Orange, California
Capek, Ladislav V	2	Chicago
Carey, Thomas Edward	1	Chicago
Carley, Paul Sterling	2	Buckley
Carpenter, Fred Elton, B.S.	4	Reasnor, Iowa
Champlin, Howard William	2	Chicago
Chenowith, Frank Leland	1	Mason City
Cirlin, Marcus	1	New York, New York
Clarke, George Edward	2	Noblesville, Indiana
Cline, Gerald M	2	LeRoy
Cohen, Carl	2	Atlanta
Colbert, Carter Neville	4	Racine, Wisconsin
Coleman, John Spurgeon	1	Halstead, Kansas
Connell, Walter Joseph, B.S.	3	Farley, Iowa
Cook, Lyman Dale	1	Beloit, Kansas

Cottle, Maurice H	*2*	*Chicago*
Craddock, John W	*2*	*Chicago*
Crawford, Neal Dow	*1*	*Luverne, Minnesota*
Crawford, Woodruff Lynden	*2*	*Chicago*
Curtis, William	*2*	*Chicago*
DaCosta, Harold Fonseca	*2*	*Chicago*
D'Alcorn, Ernest Napoleon	*1*	*Chicago*
Dana, Winfred P, B.S.	*3*	*Tacoma, Washington*
Davison, Charles Marshall	*2*	*Chicago*
Dawson, George Isaac	*1*	*Berkeley, California*
Dennis, Howard Olney	*1*	*Clovis, New Mexico*
Diller, Harold Francis	*2*	*Rantoul*
Donovan, Edward Vincent	*2*	*Chicago*
Dorewitz, Maurice	*3*	*Niagara Falls, New York*
Draper, Laurence F	*2*	*Clinton*
Dryden, Frank Merle	*3*	*Oak Park*
D'Vorak, Albert Charles, B.S.	*4*	*Kewaunee, Wisconsin*
Dyer, Robert E	*3*	*Chicago*
Dysart, Benjamin Quincy, B.S.	*4*	*Granville*
Eby, Ida, B.S.	*3*	*Columbus Grove, Ohio*
Egan, Edward Michael	*1*	*Chicago*
Ehrlich, Maxilian Charles	*2*	*Chicago*
Eisler, Edwin Roy	*3*	*Minneapolis, Minnesota*
Elvidge, George	*2*	*Lone Rock, Iowa*
Engerman, Max	*2*	*Chicago*
Fetherston, James Edward, B.S.	*4*	*Edmonton, Alberta*
Fisch, Max Eleazar, B.S.	*3*	*Chicago*
Fischer, Walter Rathfon	*2*	*Chicago*
Fitch, Franklin Ransom	*1*	*Chicago*
Forster, Neslen Kelliher, M.A.	*3*	*Spokane, Washington*
Fox, Nathan Henry, B.S.	*3*	*Chicago*
Fraser, John Howden, B.S., M.S.,	*3*	*Monticello, Iowa*
Freark, Ray Henry	*2*	*Champaign*
Friend, Oscar Falker	*1*	*Chicago*
Gabriel, Carson King	*2*	*Payson*
Gainer, John Fisher	*1*	*Palatine*
Gernon, Gerald Deland	*2*	*Kankakee*
Genther, William P	*1*	*Chicago*
Goldberg, Joseph	*1*	*Chicago*
Goldblatt, Louis	*2*	*Chicago*
Goldenson, Max Julian	*1*	*Chicago*
Gordon, Harry	*1*	*Chicago*
Gramer, Edward Phillip	*2*	*Chicago*
Granger, Wayne Bernard, A.B., B.S.	*3*	*Phillipsburg, Kansas*
Greenfield, Jacob Rachmiel, B.S.	*3*	*Brooklyn, New York*
Greenwood, Ray Ellsworth	*2*	*Kankakee*
Groos, Louis Peter	*3*	*Escanaba, Michigan*
Gruenhagen, Arnold Phillip	*3*	*St. Paul, Minnesota*
Gwin, Ethel Anna	*2*	*Modesto, California*
Hanson, Harlow James, B.S.	*3*	*Hutchinson, Minnesota*
Hardinger, Paul Milton, B.S.	*3*	*Gays*
Hayes, Marshall David	*2*	*Chicago*
Heinekamp, Walter J. R	*1*	*Chicago*
Heller, Henry Frederick	*2*	*Des Plaines*
Henderson, Arthur Justin G	*3*	*Lake Mills, Iowa*
Hershey, Charles Owen	*1*	*La Junta, Colorado*
Hilbert, John William, B.S.	*3*	*Chicago*
Hocum, Harold E	*4*	*Minneapolis, Minnesota*
Hottman, Herbert Harry	*2*	*Dubuque, Iowa*
Huber, Paul Robert, Ph.G.	*4*	*Chicago*
Hyatt, Emory G	*2*	*Macon, Missouri*
Irvine, George B	*2*	*Lake City, Minnesota*
Irwin, Charles Edward	*4*	*Belle Plaine, Iowa*
Jelinek, Joseph	*2*	*Cicero*
Jensen, Clarence C	*3*	*Brigham City, Utah*
Jensen, Ingvald	*2*	*Chicago*
Jewell, Harrison Bonwell	*1*	*Coon Rapids, Iowa*
Jewell, John Holly	*1*	*Coon Rapids, Iowa*
Johnson, John Walter	*2*	*Chicago*
Jones, Orion Chester	*4*	*Redmon*
Jongewaard, Albert John	*4*	*Orange City, Iowa*
Kaiser, Karl J	*2*	*Aurora*
Karbeling, Morris	*1*	*Chicago*
Kazmann, Harold Aaron	*3*	*Battle Creek, Michigan*
Keckler, Ethel Leona, A.B.	*2*	*Millidgeville*
Keegan, Harold Richard	*1*	*Chicago*
Kehl, Sylvester Carl	*3*	*Madison, Wisconsin*
Kelly, Everett Clyde, B.S.	*3*	*Chillicothe*
Kennedy, Josephine, A.B.	*4*	*Wheaton*
Kipnis, Herman Benzion, B.S.	*3*	*Chicago*
Koetter, George Frank	*1*	*Chicago*
Koptik, George, B.S.	*4*	*Chicago*
Kordenat, Ralph August	*1*	*Oak Park*
Kraft, Adolph	*1*	*Gilman*
Kryder, George Buchanan	*2*	*Freeport*
Laibe, Joseph E F	*1*	*Chicago*

Lambertson, Everett Raymond	2	*Murray, Iowa*
LaRocca, Joseph	2	*Chicago*
Lawn, Hugh Edward	1	*Minneapolis, Minnesota*
Leonard, Ruth, A.B.	2	*Chicago*
Levin, Abe Louis	1	*Chicago*
Levinson, Samuel Azor, B.S.	3	*Chicago*
Liberman, David Lionel	4	*St. Joseph, Missouri*
Little, Ethel Esther	1	*Champaign*
Loughery, Harold Barker	1	*Palestine*
Loving, Luther Wilbur	4	*Laurens, Iowa*
Lutter, John	2	*Chicago*
MacArthur, John Wood, A.B., A.M.	2	*Bowmansville, New York*
Magath, Thomas Byrd, Ph.B., M.S., Ph.D.	2	*Oxford, Georgia*
Malcolm, William Alexander, B.S.	3	*Higbee, Missouri*
Mandel, Robert Meyer	1	*Chicago*
Marcus, Morris, B.S.	3	*Chicago*
Marks, Julian Barnett	4	*Oscoda, Michigan*
Maryan, Harry I	1	*Chicago*
Mercey, Raymond John, B.S.	4	*St. David*
Merrill, Charles Leo	2	*Richmond, Utah*
Merrill, Don Clayton	1	*Richmond, Utah*
Metcalf, G. Stanley	2	*Janesville, Wisconsin*
Miller, Myron H	2	*Chicago*
Mitchell, Joseph Edgar	1	*Franklin, Texas*
Mix, John Raymond	1	*Beardstown*
Moeur, John Kelly	1	*Tempe, Arizona*
Morin, Oswell	3	*Danville*
Moulton, Gertrude Evelyn, A.B., B.S.	3	*Reva, South Dakota*
Mroz, Rudolph	1	*Chicago*
Mulfinger, Carl Leonard	1	*Meadville, Pennsylvania*
Murphy, Thomas Berton, B.S.	4	*Oakesdale, Washington*
Mustell, Robert Rowlaine, B.S.	3	*Cashmere, Washington*
McCoy, Harold J	2	*Imperial, Nebraska*
McCradie, Robert Drinnan	2	*Grandin, North Dakota*
McCrory, Charles Robert	3	*Ireton, Iowa*
McDermott, Raymond Adam	2	*Batavia*
McGuinness, Hugh Stanley, B.S.	3	*Chicago*
McNally, William D, A.B.	*sp*	*Chicago*
Naroditsky, Samuel	2	*Chicago*
Nemerofsky, Jacob	1	*Chicago*
Nickels, Arnold Carl	1	*Watertown, Wisconsin*
Noonan, William James	2	*Elma, Iowa*
Norviel, Herald Bernard	2	*Urbana*
Ochs, Clara M, B.S.,	4	*Oak Park*
Ochs, Milton M	2	*Oak Park*
Oliver, Henry Earle	3	*Sigourney, Iowa*
Olson, Albert Erie	2	*Duluth, Minnesota*
O'Malley, Francis Xavier	2	*Chicago*
Orcutt, Arthur Henry, A.B., B.S.	4	*Arcola*
Ostler, David Elmer	2	*Salt Lake City, Utah*
Parker, James William, Jr.	2	*Peoria*
Paskind, Harry A	2	*Chicago*
Pastor, Jose Rodriguez	1	*Chicago*
Patterson, George Hill	1	*Chicago*
Pauker, Norbert	2	*Chicago*
Perkins, Chester H	4	*Temple, Oklahoma*
Peterson, Albert	1	*Tiegen, Montana*
Peterson, Joe Oliver	3	*Princeton, Minnesota*
Peterson, Peter Eberhart	1	*Frost, Minnesota*
Petrass, Andrew	2	*Chicago*
Piasezynski, Francis	4	*Austria*
Pickoff, Fred	2	*Russia*
Pinkerton, Roger Edmond	1	*Pawnee City, Nebraska*
Plant, Robert Francis	1	*Chicago*
Plice, Samuel Glenn	1	*Chicago*
Polkovitz, Mannie Arnold	1	*Chicago*
Propst, Duane Willard, A.B., B.S.	3	*Springfield*
Przypyszny, Casimir	1	*Chicago*
Pyne, Herbert Samuel, Jr.	1	*Provo City, Utah*
Rackliffe, Thomas Thayer	2	*St. Joseph, Missouri*
Raginsky, Oscar	1	*Chicago*
Rettig, Frederick August	1	*Chicago*
Richmond, Frank	1	*Chicago*
Rieke, Arthur George	4	*Blairstown, Iowa*
Rogers, William Turner, B.S.	3	*Hume*
Rosenberg, Maurice Joseph	1	*Chicago*
Rosenburg, Harry L, B.S.	3	*Chicago*
Rost, Theodore August	1	*Petersbu*
Rubin, Irwin	1	*Chicago*
Rubright, Franklin LeRoy	2	*Emerson*
Rudnik, Dorrin Fred	1	*Chicago*
Ruppenthal, Armond	2	*Brillon, Wisconsin*
Rush, Paul White	1	*Detroit*
Saelhof, Clarence Charles	1	*Chicago*
Saunders, Hubbard Prather, B.A.	3	*Hickman, Kentucky*
Schachter, Joseph Andrew, B.S.	3	*Chicago*

Schelm, George William, B.S.	*4*	*Denison, Iowa*
Schmidt, Elmer Jacob, B.S.	*3*	*Seymour, Wisconsin*
Schmidt, Herbert	*2*	*Chicago*
Schorr, Henry	*1*	*Chicago*
Schroeder, Paul Louis, B.S.	*3*	*Nashville*
Schroeder, Robert Henry	*1*	*Nashville*
Sexsmith, Edna Kathryne, B.A.	*4*	*Greenfield, Iowa*
Shapiro, Irving Joseph	*1*	*Chicago*
Sill, Grant Wood	*2*	*Chicago*
Simunich, William Anthony	*1*	*Chicago*
Sinai, Lena (Mrs.)	*1*	*Chicago*
Sladek, Edward Frank, B.S.	*4*	*Cicero*
Slaughter, Mary Gertrude (Mrs.)	*2*	*Chicago*
Smith, Bryan Arthur	*1*	*Sullivan*
Smith, Clayton Sidney, B.S., M.S., Ph.D.	*2*	*Chicago*
Sodaro, Joseph Clarence	*1*	*Aurora*
Soloway, Herman M	*1*	*Minneapolis, Minnesota*
Spector, Hyman	*1*	*Chicago*
Spiesman, Irvin Gabriel	*1*	*Chicago*
Sponder, Joseph	*2*	*Chicago*
Sprafka, Grover Benjamin	*1*	*Minto, North Dakota*
Stein, Michael	*2*	*Chicago*
Stewart, Frank	*1*	*Champaign*
Stone, Theodore	*2*	*Chicago*
Stromberg, William Benjamin	*2*	*Chicago*
Testin, Henry	*1*	*Joliet*
Tharp, Herbert Milton, B.S.	*3*	*Reasnor, Iowa*
Thomas, Clyde Samuel, A.B., M.A.	*4*	*Corning, Iowa*
Thompson, Fred Rush	*2*	*Cedarville*
Traisman, Alfred Stanley	*1*	*Chicago*
Van Pelt, Theodore Ross	*1*	*State Center, Iowa*
Vaughan, Edward Perry	*3*	*Minneapolis, Minnesota*
Velitchkoff, Metodi, B.S.	*3*	*Bulgaria*
Ventress, Ward Huston	*1*	*Monmouth*
Wagoner, Guy Leon, B.S.	*4*	*McComb, Ohio*
Waldmann, Louis Francis	*4*	*Council Bluffs, Iowa*
Walker, Robert Allyn	*2*	*Alhambra, California*
Warmolts, Lambertus	*2*	*Oregon*
Warren, Homer Samuel, Jr.	*1*	*Chicago*
Way, Charles Thomas	*1*	*Fox Lake, Wisconsin*
Weaver, George Lynn, B.S.	*3*	*Antigo, Wisconsin*
Weber, Leonard Fred	*1*	*Gilman*
Werner, Peter J	*2*	*Chicago*
White, Cyrus Lanyon	*2*	*Mineral Point, Wisconsin*
Whitmire, Clarence Leonard, B.S.	*3*	*Waverly, Iowa*
Williamson, Earl Willbre, B.S.	*3*	*Tuscola*
Willis, Howard H	*2*	*Newmarket, Ontario*
Wilson, Clarence Leon	*2*	*Carbondale*
Wishnefsky, Louis J	*2*	*Chicago*
Wittelle, Frank Max	*2*	*Chicago*
Woods, Ralph A	*2*	*Orange, California*
Worthington, Robert, Jr.	*1*	*Petersburg*
Wright, William Edson	*2*	*Gifford*
Yonkers, William	*1*	*Chicago*
Zulaybar, Sofronio	*1*	*Lilio, Philippine Islands*

COLLEGE OF DENTISTRY

Name	Year	Residence
Achinelly, Oscar	*4*	*La Plata, Argentine Republic*
Allen, Bernard Robert	*4*	*Chicago*
Allgeicr, James Harold	*4*	*Chicago*
Arneson, J Bertram	*4*	*Chicago*
Arneson, Odell	*3*	*Whitchell, Wisconsin*
Bacher, William A	*3*	*Bayonne, New Jersey*
Bancroft, John W	*1*	*Greenup*
Bashur, Abraham K	*4*	*Burj Safita, Syria*
Bell, Stanley Curtis	*4*	*Valley Junction, Iowa*
Bellan, Chester P	*4*	*Chicago*
Bellows, Marion E	*3*	*Kalamazoo, Michigan*
Berens, Vincent J	*4*	*Shakopee, Minnesota*
Best, Reginald	*3*	*Evanston*
Blatt, Arthur E	*3*	*Chicago*
Bloom, Max	*3*	*Chicago*
Bluestein, Bernard	*3*	*Chicago*
Breyer, Austin T	*4*	*Waupun, Wisconsin*
Briggs, Orville C	*4*	*Columbia City, Indiana*
Bringham, Henry	*1*	*Elgin*
Brodsky, Jacob A	*3*	*Chicago*
Brooks, Stanley O	*3*	*Faulkton, South Dakota*
Brown, Clyde	*4*	*Plant City, Florida*
Brown, Bradford T	*1*	*Chicago*
Bush, Earl F	*3*	*E. Stroudsburg, Pennsylvania*
Campbell, George A	*3*	*Grand Forks, North Dakota*

Campbell, Rowland Hugh	*4*	*Blackfoot, Idaho*
Capenegro, Sebastian	*1*	*Chicago*
Carter, Lowell J	*3*	*Des Moines, Iowa*
Carroll, Frederick William	*4*	*Chicago*
Chambers, Laura (Mrs.)	*4*	*Chicago*
Chapman, Joseph	*1*	*Chicago*
Classen, Edwin	*1*	*Gilman*
Clark, Charles S	*1*	*South Bend, Indiana*
Collins, Gerald Ralph	*4*	*Vermillion, South Dakota*
Condren, Francis L	*3*	*Sanborn, New York*
Cooper, Louis	*2*	*Chicago*
Crockett, Burr Raymond	*4*	*Westfield, Wisconsin*
Cunningham, Norris Lee	*4*	*Bowen*
Dahlke, Walter Gilbert	*1*	*Westfield, Wisconsin*
Dann, Forrest A	*3*	*Sandusky, Ohio*
Di Cosola, Septimo	*3*	*Chicago*
Dippel, Albert R	*4*	*North Freedom, Wisconsin*
Dippel, Frederick	*3*	*North Freedom, Wisconsin*
Drea, Arthur S	*4*	*Chicago*
Droher, Isaac I	*4*	*St. Joseph, Missouri*
Dodge, Chas. A.D.D.S.	*sp.*	*Chicago*
Doyle, Thomas L	*3*	*Fulton*
Drues, Lionel M	*2*	*Chicago*
Duke, Harrison Reed	*3*	*Chicago*
Dunn, R W	*1*	*Beardstown*
Dyer, Lewis A	*1*	*Danville*
Dursema, Chester Davis	*4*	*Kenosha, Wisconsin*
Erickson, Edwin O	*4*	*Cottonwood, Minnesota*
Fellows, Mac Carlyle	*4*	*Charlotte, Michigan*
Finnegan, John	*3*	*Homer*
Forslund, Cecil W	*3*	*Fairbury, Nebraska*
Forwalter, Maurice	*3*	*Convoy, Ohio*
Freeman, Charles Boyd	*4*	*Volga, South Dakota*
Gaviria, Alberto D.D.S.	*4*	*Bogota, Colombia*
Geduldig, Chester	*3*	*Chicago*
Goldberg, Isadore	*4*	*Chicago*
Goldman, Maurice	*3*	*Chicago*
Goodfriend, Ervin I	*1*	*Chicago*
Gordon, Meyer S	*1*	*Chicago*
Greenwood, Robert G	*1*	*Chicago*
Gorman, Elsie (Mrs)	*3*	*Sioux Falls, South Dakota*
Gorman, Francis L	*3*	*Chicago*
Grief, Rudolph U	*1*	*St. Joseph, Missouri*
Halbmaier, Albert Edward	*3*	*Flandreau, South Dakota*
Halmhuber, Paul G	*3*	*Detroit, Michigan*
Hamachek, Slavie O	*3*	*Kewanee, Wisconsin*
Handler, Louis	*3*	*Chicago*
Harris, Peter S	*3*	*Sudena, Greece*
Hein, Leo F A	*3*	*Stevens Point, Wisconsin*
Hewitt, Norman O	*4*	*Jamaica, B. W. I.*
Huseby, Richard J	*3*	*Grand Forks, North Dakota*
Hunt, Alphonso	*1*	*Lovejoy*
Jensen, Waldemar S	*1*	*Niagara, Wisconsin*
Jones, Claude M	*1*	*Camp Point*
Kadlec, Lillian (Miss)	*4*	*Chicago*
Kane, Joseph J	*3*	*Mt. Pleasant, Michigan*
Kastel, Alec J	*3*	*Chicago*
Ketterhagen, Alfred J	*4*	*Burlington, Wisconsin*
Kirchner, Ernest	*1*	*Chandlerville*
Korsbrek, Oscar	*4*	*Wheaton, Minnesota*
Kozinski, Lucian	*4*	*Chicago*
Krost, Max Howard	*4*	*Chicago*
Krzyzanski, Bronislow H	*2*	*Chicago*
Lace, John	*3*	*Watseka*
Lapp, Samuel	*3*	*Chicago*
Landgren, Clarence A	*3*	*Fergus Falls, Minnesota*
Lasker, Herman	*4*	*Chicago*
Lehman, Abe	*3*	*Chicago*
Lewbin, Hayman	*1*	*Chicago*
Lippitz, Maurice A	*3*	*Chicago*
Loomis, Clifford C	*3*	*Chicago*
Maits, Aage	*3*	*Copenhagen, Denmark*
Maillard, Felix Mc D	*3*	*Trinidad, B. W. I.*
Malter, Ernest	*3*	*Cincinnati, Ohio*
Marchand, Raoul J	*3*	*Rolla, North Dakota*
Margosian, Krikar S	*3*	*Iowa City, Iowa*
Marsily, G R	*3*	*Honolulu, Hawai.*
Masters, Lyle W	*4*	*Angola, Indiana*
Middleton, William B	*1*	*Argos, Indiana*
Middleton, William V	*3*	*Des Moines, Iowa*
Miller, G A, D.D.S.	*sp.*	*Chicago*
Metcalf, William George	*3*	*Streator*
McDonald, H L, D.D.S.	*sp.*	*Mitchell, South Dakota*
McKeague, Lee M	*3*	*Detroit, Michigan*
McGugin, Donald	*3*	*Pierre, South Dakota*
McNear, Philip M	*3*	*Columbia City, Indiana*

Moore, John H, A.B.	*3*	*Wynn, Arkansas*
Moore, Clayton James	*4*	*Independence, Iowa*
Motlong, Chauncey	*4*	*Crete*
Nava, Jose F	*3*	*Manila, Philippines*
Newell, Mary (Miss)	*3*	*Chicago*
Nielson, Andrew G	*1*	*Oak Park*
Nowacki, Edward	*1*	*Chicago*
Ochoa, Fidel Cadinanos, PhB.	*4*	*Burgos, Spain*
O'Connor, John F	*3*	*Chicago*
Offenlock, Howard H	*1*	*Chicago*
Olshevski, Sophia (Miss)	*1*	*Chicago*
Olson, William D	*4*	*Volga, South Dakota*
Ort, Robert K	*3*	*Cherubusco, Indiana*
Owen, Jesse	*4*	*Chicago*
Plevo, Joseph E	*3*	*Chicago*
Ploche, Leon R	*3*	*Santiago, Cuba*
Prehn, Delos C	*1*	*Wausau, Wisconsin*
Pretlow, Russel T	*3*	*Winchester, Indiana*
Pyle, Benhamin G	*4*	*Kalamazoo, Michigan*
Radell, Fred Z	*1*	*Chicago*
Rasmussen, Harry	*2*	*Chicago*
Reed, Geo. S	*4*	*Lubbock, Texas*
Reiland, Marjorie	*3*	*E. Chicago, Indiana*
Reed, Howard	*2*	*Danville*
Rice, Arthur L	*3*	*Oak Park*
Robbins, Clarence J	*3*	*Carthage, South Dakota*
Rockey, Clinton Geo	*1*	*Chicago*
Rosenthal, William	*4*	*St. Joseph, Missouri*
Ruben, Harry	*3*	*Chicago*
Rund, Jaroslav	*3*	*Chicago*
Ryan, Edward J	*1*	*Dixon*
Salnik, Helen (Miss)	*3*	*Chicago*
Sannes, Dedrik	*3*	*Madison, Wisconsin*
Savage, Edmund Henry	*4*	*Wheaton*
Schindler, Edwin	*3*	*Hesperia, Michigan*
Senty, Myron J	*4*	*Arcada, Wisconsin*
Seritella, William J	*1*	*Chicago*
Shaver, Robert Cecil	*4*	*Augusta, Wisconsin*
Shalek, Kenneth P	*3*	*Chicago*
Simon, Barney H	*3*	*Chicago*
Skaten, Otto M	*3*	*Whitehall, Wisconsin*
Smith, Charles Leroy	*4*	*Chicago*
Snoeberger, Paul A	*4*	*Rockfield, Indiana*
Solch, Geo. M	*1*	*Chicago*
Solovetzik, Henry	*1*	*Chicago*
Spafford, Eugene A	*3*	*Rockford*
Spillane, Leslie O	*3*	*Battle Creek, Michigan*
Stallard, Harvey, Ph.D.	*2*	*Minneapolis, Minnesota*
Starrett, Fred H	*4*	*Hancock, Michigan*
Stiernberg, Robert C	*3*	*Port Lavaca, Texas*
Stillerman, Jacob H	*4*	*Chicago*
Stockstad, Walter R	*1*	*Volga, South Dakota*
Stubbs, James W	*4*	*Aurora*
Teter, Harry A	*4*	*Chicago*
Thomas, Ashley	*4*	*Faulkton, South Dakota*
Turner, William E	*4*	*Wheatland, North Dakota*
Upp, Carlos A	*3*	*Havana*
Vita, Emil	*3*	*Chicago*
Webb, Erskine W	*3*	*Edgemont, South Dakota*
West, Harold T	*3*	*Stevens Point, Wisconsin*
Wilder, Robert E	*4*	*Chicago*
Williams, Wallace	*1*	*Chicago*
Winner, Harry	*2*	*Osseo, Wisconsin*
Worsley, Raymond E	*1*	*Dixon*
Yario, Angelo	*1*	*Chicago*
Yeatman, Oscar B	*4*	*Huntsville, Alabama*
Wood, Alfred H	*4*	*Utica, New York*

SCHOOL OF PHARMACY

Name	Course	Residence
Ahnert, Max Efregott	*P 1*	*Geneseo*
Almond, Thomas E	*P 1*	*Aurora*
Bakkers, Mrs. Neff Kuyper	*P 2*	*Chicago*
Baldwin, Edgar	*P 2*	*Genoa*
Bangert, Howard Wells	*P 1*	*Chicago*
Barone, Christopher	*P 2*	*Chicago*
Baxa, Ladislav Edward	*P sp*	*Chicago*
Bengston, Frederic Alvin	*P 2*	*McPherson, Kansas*
Biaselli, Cosmo David	*P 1*	*Chicago*
Black, Waldo Knox	*P 2*	*Chicago*
Blanchet, Gustave Miller	*P 1*	*New Orleans, Louisiana*
Bower, Miss Georgina Grace	*P 2*	*Chicago*
Brockhoff, Lewis Paul	*P 2*	*Perham, Minnesota*

Bronner, Paul	*P*	*2*	*Chicago Heights*
Brumfield, James Green, Ph.G.[1]	*PC*	*3*	*Chicago*
Buerkle, Henry Adam	*P*	*1*	*DuQuoin*
Byanskas, Alexander William	*P*	*1*	*Chicago*
Campbell, George Matthew	*PC*	*3*	*Odell*
Carley, Donald Dudley	*P*	*1*	*Quincy*
Carlson, Miss Ethel Marie	*P*	*2*	*Hubbard Woods*
Clapp, Charles Gardner	*P*	*1*	*Redlands, California*
Coffey, William Malone	*P*	*1*	*Hammond, Louisiana*
Cordsiemon, Earl Henry	*P*	*sp*	*Quincy*
Covnot, Moses Philip	*P*	*1*	*Streator*
Curran, George Edmund	*P*	*1*	*Belvidere*
Davidson, Ralph	*P*	*1*	*Oak Park*
Dedic, Miss Libbey	*P*	*1*	*Chicago*
Diggs, James Harrison	*P*	*1*	*Chicago*
Dimond, Walter Harry	*P*	*2*	*Chicago*
Doherty, Daniel Joseph	*P*	*sp*	*Clinton, Iowa*
Dyniewicz, Miss Hattie Adela, Ph.G., 1917	*PC*	*3*	*Chicago*
Dyniewicz, Miss Josephine Marion	*PC*	*3*	*Chicago*
Early, Harold Ivan	*P*	*2*	*Winter Haven, Florida*
Edmond, Clarence Ernest	*P*	*1*	*Chicago*
Erickson, Eric John	*P*	*1*	*Chicago*
Fahrner, Julius Sylvester	*P*	*2*	*Chicago*
Fallon, Walter Raymond	*P*	*1*	*Chicago*
Fenn, Kenneth Newton	*P*	*1*	*Prophetstown*
Florian, Tony Henry	*P*	*2*	*Chicago*
Forbrich, Edward Joseph	*P*	*sp*	*Antioch*
Formhals, Wallace Joseph	*P*	*2*	*Ottawa*
Frase, Karl William	*P*	*1*	*Chicago*
Fraser, Ralph Eldridge	*P*	*1*	*Davis Junction*
Frederick, Albert Charles	*P*	*2*	*Chicago*
Fredrickson, Arthur Christ	*P*	*2*	*Chicago*
Fritschell, Arno William	*P*	*2*	*Chicago*
German, Clarence Winfred	*P*	*sp*	*Williamsfield*
Gilchrist, John Morgan	*P*	*1*	*Chicago*
Gillette, Baptiste	*P*	*1*	*Chicago*
Goldman, Ira	*P*	*1*	*Chicago*
Gouaux, Louis Phillip	*P*	*sp*	*New Orleans, Louisiana*
Graft, Roy Joseph	*P*	*sp*	*Chicago*
Grenberg, Richard Emmanuel	*P*	*2*	*Rockford*
Grosse, Arthur Gustav	*P*	*2*	*Chicago Heights*
Haeberle, Erwin John	*P*	*2*	*Broken Bow, Nebraska*
Haeseler, Mrs. Olga Estelle	*P*	*sp*	*Chicago*
Haselberger, Charles Frank	*P*	*sp*	*Chicago*
Hill, Leo Stanley	*P*	*sp*	*Alma, Michigan*
House, Leslie Allen	*P*	*2*	*DuQuoin*
Huber, George Russell	*P*	*sp*	*Chicago*
Humma, T Bernard	*P*	*1*	*Metropolis*
Jensen, Harry Jesse	*P*	*1*	*Chicago*
Johnson, Alfred Richard	*P*	*2*	*Kerkhoven, Minnesota*
Johnson, Frederick Douglas	*P*	*2*	*Chicago*
Johnson, Paul Ellsworth	*P*	*1*	*Mt. Sterling*
Johnston, Ralph	*P*	*sp*	*Greenburg, Pennsylvania*
Jones, Harold Vernon	*P*	*1*	*Cowden*
Karel, Louis	*P*	*2*	*DeKalb*
Kartman, Nathan Sam	*P*	*1*	*Chicago*
Kimball, Holmes Amos	*P*	*2*	*Chicago*
Kleinhammer, Roy Philip	*P*	*sp*	*Chicago*
Kodl, Albert James	*P*	*sp*	*Chicago*
Koehler, Walter George	*P*	*1*	*Kankakee*
Koelbel, Waldemar Arthur	*P*	*2*	*Chicago*
Laegeler, Julius Charles	*P*	*1*	*Highwood*
LeClaire, Neree Edmond	*P*	*sp*	*Chicago*
Lenz, Charles	*P*	*2*	*Chicago*
Lightfoot, Baxter Elijah	*P*	*1*	*Farmington*
Linch, Mike LeRoy	*P*	*2*	*Weir, Mississippi*
Lindahl, John Henry	*P*	*sp*	*Chicago*
Lindh, Carl Wilhelm Birger	*P*	*2*	*South Chicago*
Loomis, Lloyd Albert	*P*	*1*	*Detroit, Michigan*
Lowe, Edward, A.B., 1916[2]	*P*	*1*	*Little Rock, Arkansas*
Lowe, James Alexander, 1917[2]	*P*	*1*	*Augusta, Arkansas*
McClure, Miss Pauline	*P*	*2*	*Chicago*
McCormac, Joseph Hyde	*P*	*1*	*Chicago*
McDaniel, Gerald Litton	*P*	*1*	*Taylorville*
McLaughlin, Elmer William	*P*	*1*	*Quincy*
Maag, Arnim Paul	*P*	*sp*	*Chicago*
Mahaffy, J Raymond	*P*	*1*	*Chicago*
Malinsky, George	*P*	*sp*	*Chicago*
Martin, Warren H, B.S., 1914[3]	*P*	*1*	*Fletcher, Oklahoma*
Mastrofsky, Ben	*P*	*1*	*Chicago*
Mayerson, Alexander Carl	*P*	*2*	*Chicago*
Menard, Wilfred Ignatius	*P*	*2*	*Chicago*

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[1] (Northwestern University, 1917)

[2] (Arkansas Baptist College)

[3] (Wake Forest College)

Milles, Leo	*P*	*1*	*Chicago*
Moyen, George Frederick William	*P*	*1*	*Chicago*
Novotny, Stanley	*P*	*1*	*Western Springs*
Oberman, Joseph Ruby	*P*	*1*	*Springfield*
Olk, John Jacob	*P*	*sp*	*Chicago*
Olson, James B., Ph.G., 1917[1]	*PC*	*3*	*Melvina, Wisconsin*
Owens, Hubert Fred	*P*	*2*	*Clinton*
Paara, William Robert	*P*	*sp*	*Chicago*
Park, Albert	*P*	*1*	*Chicago*
Parkhurst, Ralph	*P*	*sp*	*Effingham*
Pate, Clyde M	*P*	*1*	*Shelbyville*
Peetz, Arthur Weinert	*P*	*1*	*Chicago*
Perez, Victor	*P*	*2*	*Sayba, San Domingo, West Indies*
Person, Frank Daniel	*P*	*2*	*Chicago*
Quinn, William Gordon Cosmas	*P*	*1*	*Chicago*
Quinn, William Norman	*P*	*1*	*Griswold, Iowa*
Ralph, William Francis	*P*	*2*	*Odel*
Rambo, Leon A	*P*	*1*	*LaMoille*
Reisman, Samuel	*P*	*sp*	*Chicago*
Robertson, John Thomas	*P*	*2*	*Morrison*
Rose, James Horace	*P*	*1*	*Chicago*
Sample, Leo Emerson	*P*	*1*	*Greenville*
Schmitz, Arthur Edward	*P*	*sp*	*Chicago*
Schumaker, Howard J	*P*	*1*	*Highland Park*
Sedlack, George	*P*	*2*	*Chicago*
Sharps, Max William	*P*	*sp*	*Chicago*
Shindler, Harold Allen	*P*	*2*	*Litchfield*
Sickman, Cyrenus Lee	*P*	*2*	*Monmouth*
Silberberg, Gust	*P*	*sp*	*Chicago*
Simpson, George Angus	*P*	*sp*	*Chicago*
Sister Mary Cajetana	*P*	*sp*	*Chicago*
Sister Mary Wilhelmina	*P*	*sp*	*Chicago*
Skelton, Maurice Bradford	*P*	*1*	*Urbana*
Slama, Joseph Frank	*P*	*sp*	*Chicago*
Spanier, William Charles	*P*	*2*	*Chicago*
Stewart, Russell Myers	*P*	*sp*	*Chicago*
Tate, William Mack	*P*	*2*	*Pine Bluff, Arkansas*
Thompson, Raymond Lee	*P*	*2*	*Chicago*
Thornton, Silas Benjamin	*P*	*1*	*Junction City, Arkansas*
Unger, Joseph August	*P*	*2*	*Rochelle*
Unseth, Earl Harold	*P*	*2*	*Westby, Wisconsin*
Vahlteich, Hans Walter	*PC*	*3*	*Chicago*
Walknetz, Nevin Frederick	*P*	*1*	*Huntington, Indiana*
Ward, Burt Hamor	*P*	*2*	*Toulon*
Wherley, Homer Leo	*P*	*2*	*Astoria*
White, Edward Napoleon	*P*	*1*	*Mounds*
White, William Henry	*P*	*sp*	*Chicago*
Wilson, Charles Rodger	*P*	*1*	*Carbondale*
Windmueller, Ralph William	*P*	*2*	*Chicago*
Wood, George Washington	*P*	*2*	*Chicago*
Wyle, Arnin Robert	*P*	*2*	*Waverly*

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[1] (Northwestern University)

DEGREES CONFERRED

1917

Degrees are conferred at four times in the year, as follows: (1) at the end of the first semester, in February; (2) at the end of the second semester, in June; (3) at the end of the Summer session, in August; (4) in October. Unless otherwise stated, the degrees in the following lists were conferred on June 13, 1917. The candidates whose names are preceded by an asterisk withdrew from the University during the months of April and May, 1917, to enter service for the national defense, the specific service having been approved in each case by the University authorities.

THE UNDERGRADUATE COLLEGES

Degrees of Bachelor of Arts, Bachelor of Science, and Bachelor of Music

Ella Abrams, Bachelor of Arts (Liberal Arts)
Ester Mae Ackerson, Bachelor of Arts (Liberal Arts)
*Allan Madison Adams, Bachelor of Science (Agriculture)
Leon Adler, Bachelor of Science (Science)[1]
Sarah Agg, Bachelor of Science (Agriculture)
Beulah Irene Agnew, Bachelor of Arts (Liberal Arts)[1]
*Hazen Lowell Albaugh, Bachelor of Arts (Commerce)
Lucy Elizabeth Allen, Bachelor of Science (Agriculture)
Cashius Lyle Allhands, Bachelor of Science (Agriculture)
Hester Anne Allyn, Bachelor of Arts (Liberal Arts)
*Clyde Gobel Adwood, Bachelor of Science (Agriculture)
John Rea Ambruster, Bachelor of Science (Agriculture)
Waldo Boynton Ames, Bachelor of Arts (Commerce)
Charles Wesley Anderson, Bachelor of Arts (Liberal Arts)
Olive Matilda Anderson, Bachelor of Science (Agriculture)
William Wilson Anderson, Bachelor of Science (Agriculture)
*Arthur Arends, Bachelor of Science (Agriculture)
Alice Nona Armstrong,[2] Bachelor of Science (Liberal Arts)
John Harold Armstrong, Bachelor of Arts (Liberal Arts)
Paul William Arndt, Jr., Bachelor of Science (Agriculture)
Inga Irene Arntzen,[3] Bachelor of Arts (Liberal Arts)
Seiji Asai, Bachelor of Arts (Commerce)
Lalah Marie Augustus, Bachelor of Arts (Liberal Arts)
Guy Thomas Avery, Bachelor of Science (Mechanical Engineering)
Rowland Alonzo Avery, Bachelor of Science (Agriculture)
*Edward Springer Axline, Bachelor of Arts (Commerce)
Dan Babcock, Bachelor of Science (Architectural Engineering)
Gerald Clifford Baker, Bachelor of Arts (Liberal Arts)[1]
Guy Baker, Bachelor of Science (Electrical Engineering)
Margaret Helen Baldwin, Bachelor of Arts (Liberal Arts)
Mary Elsie Ball, Bachelor of Arts (Liberal Arts)
*Edwin Franklin Barker, Bachelor of Science (Mechanical Engineering)
Edward Carl Barkstrom, Bachelor of Science (Mechanical Engineering)
Earl Convis Barnes, Bachelor of Science (Railway Electrical Engineering)
Harold John Barnes, Bachelor of Science (Architecture)
Helen Marian Barnes, Bachelor of Arts (Liberal Arts)
*Frank Newton Barrett, Bachelor of Science (Agriculture)
Minnie Bartels, Bachelor of Arts (Liberal Arts)
Margaret Murry Barto, Bachelor of Arts (Liberal Arts)
Sallie Catherine Battaile, Bachelor of Arts (Liberal Arts)
Bradford Reed Battey, Bachelor of Arts (Commerce)
Zilpha Curtis Battey, Bachelor of Arts (Liberal Arts)
*Lewis Augustus Bauder, Bachelor of Science (Agriculture)
Lillian Bertha Bean, Bachelor of Arts (Liberal Arts)
*Paul Becker, Bachelor of Science (Mechanical Engineering)
Walter Henry Becker, (Bachelor of Arts (Commerce)
Otis Edward Beers, Bachelor of Science (Mechanical Engineering)
*Wesley Arthur Behel, Bachelor of Science (Architecture)
Norma Elizabeth Bell, Bachelor of Arts (Liberal Arts)
William Bigel, Jr., Bachelor of Science (Agriculture)
George Frederick Binder, Bachelor of Science (Agriculture)
Frieda Emma Alvina Block, Bachelor of Music[1]
George Charles Blohm,[4] Bachelor of Arts (Liberal Arts)
Harold John Bluhm, Bachelor of Science (Science)[1]
Eugene Sonnenberg Boerner, Bachelor of Science (Agriculture)
Jesse Louis Bollman,[3] Bachelor of Arts (Liberal Arts)
Lyman Booth, Bachelor of Science (Agriculture)

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[1] With thesis.
[2] Degree conferred August 10, 1917.
[3] Degree conferred October 20, 1917.
[4] Degree conferred February 21, 1917.

Mabel Mae Borman, Bachelor of Arts (Liberal Arts)
Katherine Lois Born, Bachelor of Science (Agriculture)
*Cecil Walden Borton, Bachelor of Arts (Commerce)
Paul McConley Boston, Bachelor of Arts (Commerce)
Paul Eugene Bower, Bachelor of Science (Agriculture)
Emily Maurine Bowman, Bachelor of Arts Liberal Arts)
Mabel Bowman, Bachelor of Arts (Liberal Arts)
Marian Cummings Boyd, Bachelor of Arts (Liberal Arts)
LeRoy Bradley, Bachelor of Science (Architecture)
Hubert Butler Bramlet Bachelor of Arts (Liberal Arts)[1]
*William Ralph Branch, Bachelor of Science (Architecture)
Eugene Francis Brazeau, Bachelor of Arts (Commerce)
Charles Gage Brennemann,[2] Bachelor of Arts (Liberal Arts)
Flora Bernice Briggs, Bachelor of Science (Agriculture)
George Washington Bristow, Bachelor of Arts (Liberal Arts)
*Charles Allen Britt, Bachelor of Science (Agriculture)
William Allan Brittin, Jr., Bachelor of Science (Agriculture)
Angelina Louise Brockmeier, Bachelor of Arts (Liberal Arts)
Frederick Augustus Brooks, Bachelor of Science (Electrical Engineering)
Viola Brooks, Bachelor of Arts (Liberal Arts)
Albert Willard Brown, Bachelor of Arts (Liberal Arts)
*Allen Brookins Brown, Bachelor of Arts (Liberal Arts)
Dorothy Sargent Brown, Bachelor of Arts (Liberal Arts)
Harlow Wood Brown, Bachelor of Science (Agriculture)
Helen Dosey Brown, Bachelor of Science (Agriculture)
John Lawrence Brown, Bachelor of Arts (Commerce)
Ralph Powers Brown, Bachelor of Science (Civil Engineering)
Kathryn Eleanor Browne, Bachelor of Music[1]
Georgia Brownfield, Bachelor of Science (Agriculture)
Thomas Samuel Browning, Bachelor of Science (Ceramic Engineering)
Eylar William Brunskill, Bachelor of Science (Agriculture)
*Richard Bell Buchanan, Bachelor of Science (Agriculture)
Elaine Louise Buhrman, Bachelor of Arts (Liberal Arts)
Ruth Sabina Bumgarner, Bachelor of Arts (Liberal Arts)
*Albert Harold Burger, Bachelor of Science (Agriculture)
Clyde Harold Burgston, Bachelor of Science (Agriculture)
Beulah Burrell, Bachelor of Arts (Liberal Arts)
Clifford Ketchum Burton, Bachelor of Arts (Liberal Arts)
*Louis Stephen Burwash, Bachelor of Science (Agriculture)
Josephine Kathryn Busey, Bachelor of Arts (Liberal Arts)
Francis Eugene Butterfield, Bachelor of Science (Electrical Engineering)
*Gordon Francis Cadisch, Bachelor of Science (Agriculture)
Ruth Marie Caldwell, Bachelor of Arts (Liberal Arts)
*Charles Warren Campbell, Bachelor of Science (Mining Engineering)
Duncan McEvoy Campbell, Bachelor of Science (Civil Engineering)
Florence Maud Campbell, Bachelor of Arts (Liberal Arts)
Mason Herbert Campbell, Bachelor of Science (Agriculture)
*William Franklin Campbell, Bachelor of Science (Agriculture)
*Charles Coulson Canon, Bachelor of Science (Agriculture)
Ansgar Lilius Carlson, Bachelor of Science (Agriculture)
Harvey Leonard Carlson, Bachelor of Science (Agriculture)
Vernon Wesley Carr, Bachelor of Arts (Commerce)
*James Bernard Carroll, Bachelor of Science (Commerce)
Natalia Margaretta Carson, Bachelor of Arts (Liberal Arts)
Drew William Castle, Bachelor of Science (Mechanical Engineering)
*Francis Erle Cavette, Bachelor of Arts (Commerce)
Kathleen Martin Chabot, Bachelor of Arts (Liberal Arts)
Lloyd Walton Chalcraft, Bachelor of Science (Agriculture)
Hung Lieh Chang, Bachelor of Arts (Liberal Arts)
Ju Shen Chang, Bachelor of Science (Commerce)
Tze-Li Chang, Bachelor of Science (Railway Civil Engineering)
Thomas White Chapman, Bachelor of Arts (Liberal Arts)
Queh King Chen, Bachelor of Arts (Liberal Arts)
Howard Marion Chiles, Bachelor of Science (Science)[1]
*Robert Mearle Chittenden, Bachelor of Science (Ceramic Engineering)
Leroy Church, Bachelor of Science (Electrical Engineering)
Florence Helen Churton, Bachelor of Science (Agriculture)
Troy Wayne Clarida, Bachelor of Science (Agriculture)
Bayard Hand Clark, Bachelor of Science (Agriculture)
*Charles M Clark, Bachelor of Science (Railway Mechanical Engineering)
Helen Beulah Clarke, A.B., Bachelor of Music[1]
Esther Clements, Bachelor of Science (Commerce)
Julius Cohen, Bachelor of Arts (Liberal Arts)[1]
Glenn Coley, Bachelor of Science (Science)[1]
Ethel Alice Collier, Bachelor of Arts (Liberal Arts)
Grace Collins, Bachelor of Arts (Liberal Arts)
Irvin Bliss Collins, Bachelor of Arts (Liberal Arts)
*Paul Stanley Conklin, Bachelor of Science (Mechanical Engineering)
*George Otto Consoer, Bachelor of Science (Civil Engineering)
Eugene Cook, Bachelor of Science (Civil Engineering)
Roy Claiborne Cooley, Bachelor of Science (Agriculture)
Leon Morton Cooper, Bachelor of Science (Science)[1]
Lorin Vaughan Cope, Bachelor of Science (Agriculture)

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[1] With thesis.
[2] Degree conferred October 20, 1917.

*Robert George Copenhaver, Bachelor of Science (Agriculture)
Harold Winifred Corke, Bachelor of Arts (Commerce)
Donald Sidney Cornell, Bachelor of Science (Mechanical Engineering)
*Irving Byron Countryman, Bachelor of Arts (Commerce)
*Edwin Linn Covey, Bachelor of Arts (Liberal Arts)
Clare Francis Cox, Bachelor of Arts (Liberal Arts)
Henry Ray Cox, Bachelor of Science (Agriculture)
Mary Agnes Craigmile, Bachelor of Arts (Liberal Arts)
James Louis Crawford, Bachelor of Science (Ceramic Engineering)
Louis Noire Crawford, Bachelor of Science (Architecture)
Ruth Marguerite Crawford, Bachelor of Arts (Liberal Arts)
Mary Elizabeth Creighton, Bachelor of Arts (Liberal Arts)
Carson Crofts, Bachelor of Arts (Commerce)
John Henry Cryder, Bachelor of Science (Agriculture)
Opal Claree Cunningham, Bachelor of Arts (Liberal Arts)
Burton Tuttle Curtis,[1] Bachelor of Science (Agriculture)
Ralph Edwin Curtiss, Bachelor of Science (Agriculture)
William Stuart Cuthbertson, Bachelor of Arts (Commerce)
Harriette Gabriel Dadant, Bachelor of Arts (Liberal Arts)
*John Herman Dale, Bachelor of Science (Agriculture)
Maybelle May Dallenbach, Bachelor of Arts (Liberal Arts)
*Ewing Porter Daly, Bachelor of Science (Mechanical Engineering)
B Dana, Bachelor of Science (Science)[2]
*Harry Darby, Jr., Bachelor of Science (Mechanical Engineering)
George Charles Darrell, Bachelor of Science (Architectural Engineering)
Helen Powers Davis, Bachelor of Arts (Liberal Arts)
*Leonard Hoadley Davis, Bachelor of Science (Agriculture)
Leonard Louis Davis, Bachelor of Science (Civil Engineering)
Milton Russell Davis, Bachelor of Science (Agriculture)
Philip Frank Davis, Bachelor of Science (Agriculture)[2]
Curtis La Q Day, Bachelor of Arts (Commerce)
*Harry Warren Day, Bachelor of Science (Agriculture)
Vincent Stephen Day, Bachelor of Science (Mechanical Engineering)
Edna Mae Decker Bachelor of Science (Agriculture)
Willard Earl DeLong, Bachelor of Science (Commerce)
*Harold Leslie Derby, Bachelor of Science (Civil Engineering)
John Lester Devlin, Bachelor of Arts (Commerce)
Elmer Clarence Dewey, Bachelor of Arts (Commerce)
Ralph Ellsworth Dippell, Bachelor of Science (Architectural Engineering)
Josephine Dodds,[3] Bachelor of Arts (Liberal Arts)
Weastell Taylor Doe, Bachelor of Arts (Liberal Arts)[2]
Margaret Isabelle Doherty, Bachelor of Arts (Liberal Arts)
James Leo Dolan, Bachelor of Science (Agriculture)
Harold James Donaldson, Bachelor of Science (Agriculture)
Jonathan Park Douglas, Bachelor of Science (Agriculture)
Durbin Ralph Downey, Bachelor of Science (Agriculture)
*Charles Arthur Drake, Bachelor of Arts (Liberal Arts)
Louis Anthony Droste, Bachelor of Arts (Commerce)
John Clarence Duffy, Bachelor of Science (Agriculture)
George Harlan Dungan, Bachelor of Science (Agriculture)
Valentine Harry Dupre, Bachelor of Science (Electrical Engineering)
Donald Durfey, Bachelor of Arts (Commerce)
*Vincent John Dushek, Bachelor of Science (Electrical Engineering)
*Herbert Buell Dutton, Bachelor of Science (Mechanical Engineering)
Ben Cooper Eade, Bachelor of Science (Agriculture)
Harlan Hammond Edwards, Bachelor of Science (Civil Engineering)
Lillian Mary Eldridge, Bachelor of Arts (Liberal Arts)
Eva Lillian Elliott, Bachelor of Arts (Liberal Arts)
Robert Tollington Elliott, Bachelor of Science (Railway Civil Engineering)
Esther Annette Engle, Bachelor of Arts (Liberal Arts)
Ralph Nelson Engle, Bachelor of Science (Agriculture)
*Robert Henry Engle, Bachelor of Science (Agriculture)
Helen Marie Eninger,[4] Bachelor of Arts (Liberal Arts)
Arthur Louis Epstein,[5] Bachelor of Arts (Liberal Arts)
Karl Epstein, Bachelor of Science (Agriculture)
*Edward Bringle Erickson, Bachelor of Science (Municipal and Sanitary Engineering)
Charles McKinnley Ettinger, Bachelor of Science (Civil Engineering)
Donald Grover Evans, Bachelor of Science (Electrical Engineering)
*Floyd Evan Evans, Bachelor of Science (Mechanical Engineering)
William Edward Everham, Bachelor of Science (Mechanical Engineering)
*Paul George Ewald, Bachelor of Science (Agriculture)
Warren Badger Ewer, Bachelor of Science (Architectural Engineering)
Stuart William Excell, Bachelor of Science (Civil Engineering)
*Berthier Wesley Fairbanks, Bachelor of Science (Agriculture)
Elma Leola Farmer, Bachelor of Science (Agriculture)
Merrill Clifford Faulk, Bachelor of Arts (Liberal Arts)
Donald Allen Fay, Bachelor of Arts (Commerce)
Charles Russell Federmann, Bachelor of Science (Architecture)
*Harold Norton Felton, Bachelor of Science (Electrical Engineering)
George Alonzo Ferguson, Bachelor of Science (Architecture)

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[1] Degree conferred January 24, 1917.
[2] With thesis
[3] Degree conferred August 10, 1917.
[4] Degree conferred October 20, 1917.
[5] Degree conferred February 21, 1917.

Viola Louise File, Bachelor of Science (Agriculture)
Joseph Orton Finley, Bachelor of Science (Agriculture)
Marion Reese Finley, Bachelor of Science (Agriculture)
Edmund Matthew Finn, Bachelor of Science (Architectural Engineering)
Harry Eastman Fisher, Bachelor of Science (Municipal and Sanitary Engineering)
Howard J Fitch, Bachelor of Science (Agriculture)
*Herald Bratt Fites, Bachelor of Science (Agriculture)
Sylvester Stanton Fitzgerrell,[1] Bachelor of Arts (Liberal Arts)
Charles Abusdal Flannery, Bachelor of Science (Mechanical Engineering)
Richard Greer Flaugher, Bachelor of Science (Agriculture)
John Herman Flemming, Bachelor of Science (Architecture)
Ward John Flock, Bachelor of Science (Agriculture)
*George Henry Foster, Bachelor of Science (Science)[2]
James Leslie Fox, Bachelor of Science (Civil Engineering)
Jessie Lucilla Fox, Bachelor of Science (Agriculture)
Grace Bryan Frame, Bachelor of Arts (Liberal Arts)
*Thomas Fraser, Bachelor of Science (Mining Engineering)
*Eugene Mark Frederick, Bachelor of Science (Agriculture)
Harry Nathan Fried, Bachelor of Science (Agriculture)[2]
Ruth Scovell Funk, Bachelor of Science (Agriculture)
Jessie Maria Gaddis, Bachelor of Music[3]
Harold T Gallaher, Bachelor of Science (Electrical Engineering)
*Howard Stanley Gantz, Bachelor of Science (Agriculture)
Casper Tyrrell Garth, Bachelor of Arts (Commerce)
Mary Beatrice Garvin,[1] Bachelor of Arts (Liberal Arts)
Arthur Gustave Gehrig,[1] Bachelor of Science (Civil Engineering)
Marjorie Hawkins Genson, Bachelor of Arts (Liberal Arts)
Nicholas Gerten, Bachelor of Science (Civil Engineering)
*Howard Cyril Geselbracht, Bachelor of Science (Agriculture)
Maud Alberta Gibbons, Bachelor of Arts (Liberal Arts)
*Raleigh Augustus Gibson, Bachelor of Arts (Commerce)
Sylvia Rose Gibson, Bachelor of Arts (Liberal Arts)
Mate Lewis Giddings, Bachelor of Arts (Liberal Arts)
Arthur Edward Giertz, Bachelor of Science (Civil Engineering)
*Ralph Egley Gifford, Bachelor of Arts (Commerce)
Gladys Gilpatrick, Bachelor of Science (Agriculture)
Ruth Marie Glassco, Bachelor of Science (Agriculture)
Edna Agatha Goettler, Bachelor of Arts (Liberal Arts)
Henry L Gogerty, Bachelor of Science (Architecture)
Charlotte Deana Goldberg, Bachelor of Arts (Liberal Arts)
Frank Lyle Goldman, Bachelor of Science (Architecture)
Abraham Lincoln Golinkin, Bachelor of Science (Municipal and Sanitary Engineering)
Mabel Madellon Gooch, Bachelor of Arts (Liberal Arts)
George Francis Gorey, Bachelor of Science (Municipal and Sanitary Engineering)
Anthong Ready Gould,[1] Bachelor of Science (Agriculture)
Maurice Augustus Gould, Bachelor of Science (Civil Engineering)
Harland Brown Graham, Bachelor of Science (Agriculture)
Anker Sverre Graven, Bachelor of Science (Architecture)
Leslie Roy Gray, Bachelor of Science (Electrical Engineering)
Gladys Green, Bachelor of Arts (Liberal Arts)
Birdie Wilmah Greene, Bachelor of Arts (Liberal Arts)
*Harold Greenhill, Bachelor of Science (Mechanical Engineering)
*Earl Eugene Greenwell, Bachelor of Science (Science)[2]
Marion Elsie Gregg, Bachelor of Arts (Liberal Arts)
*Charles Henry Grewe, Bachelor of Science (Agriculture)
Newton Fox Grey, Bachelor of Science (Agriculture)
*John Newton Gridley, Bachelor of Science (Agriculture)
Hugh Grigsby, Bachelor of Science (Agriculture)
*Christian Gross, Bachelor of Science (Agriculture)
Clarence James Gruhl, Bachelor of Science (Architectural Engineering)
Raymond William Gruner, Bachelor of Science (Electrical Engineering)
Lois Greene Guild, Bachelor of Science (Agriculture)
Carl Albert Gustafson, Bachelor of Science (Architectural Engineering)
Elizabeth Pursel Hackley, Bachelor of Arts (Liberal Arts)
*Henry Merritt Hager, Bachelor of Arts (Commerce)
Emong George Hall, Bachelor of Arts (Commerce)
Chauncey Geyer Hamilton, Bachelor of Arts (Liberal Arts)
Don Herman Hamilton, Bachelor of Science (Agriculture)
Thomas Sherman Hamilton, Bachelor of Science (Science)[2]
William Jack Hamilton, Bachelor of Arts (Liberal Arts)
Myron Scott Hancock, Bachelor of Science (Electrical Engineering)
*Paul Newton Hanger, Bachelor of Science (Agriculture)
*William Atwater Hardin, Bachelor of Science (Agriculture)
Rollin Barnes Harrington,[1] Bachelor of Arts (Liberal Arts)
Elizabeth Payne Harris, Bachelor of Arts (Liberal Arts)
Hannah Hahn Harris, Bachelor of Arts (Liberal Arts)
Richard Nelson Hart, Bachelor of Science (Agriculture)
*Milton Miles Hartman, Bachelor of Science (Agriculture)
Albert William Harz, Bachelor of Science (Agriculture)
Henry Clifford Hawes, Bachelor of Arts (Commerce)
Columbus Ferrel Hayes, Bachelor of Arts (Commerce)
*Earle Melville Hayes, Bachelor of Science (Agriculture)

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[1] Degree conferred October 20, 1917.
[2] With thesis.
[3] Degree conferred August 10, 1917.

Glenn Lloyd Head,[1] Bachelor of Arts (Liberal Arts)
*Leo Chrysostom Heckler, Bachelor of Science (Railway Electrical Engineering)
Archie Leo Hegener,[2] Bachelor of Arts (Liberal Arts)
Mary Rachel Hein, Bachelor of Science (Agriculture)
*Mason August Hein, Bachelor of Science (Agriculture)
Spencer Rehbock Heindel, Bachelor of Science (Civil Engineering)
*Herbert Clarence Helm, Bachelor of Arts (Liberal Arts)
*Harold Hartman Hensold, Bachelor of Science (Agriculture)
Oral Vera Hess, Bachelor of Arts (Liberal Arts)
Harry Clifford Hildebolt, Bachelor of Science (Agriculture)
David Avery Hills, Bachelor of Science (Electrical Engineering)
Martha Hilpert, Bachelor of Science (Agriculture)
Walter August Himmelreicher, Bachelor of Science (Civil Engineering)
Ralph Ebner Himstedt, Bachelor of Arts (Liberal Arts)
*Lyle Wilbur Hines, Bachelor of Arts (Commerce)
Roy Everett Hipple, Bachelor of Science (Agriculture)
John A Hirstein, Bachelor of Science (Agriculture)
Aaron Andrew Hoffman, Bachelor of Arts (Commerce)
*Louis Arthur Hoffman, Bachelor of Arts (Liberal Arts)
Helen Margaret Ann Hollandsworth, Bachelor of Arts (Liberal Arts)
Laura Clark Holmes, Bachelor of Science (Agriculture)
*Eugene Canfield Hopkins, Bachelor of Science (Agriculture)
Guy Beatty Hopkins, Bachelor of Science (Electrical Engineering)
Samuel Curtis Hopkins, Bachelor of Arts (Commerce)
Hirosh Horimura, Bachelor of Science (Electrical Engineering)
*Reid Bunn Horney, Bachelor of Arts (Liberal Arts)
*Warren Rees Horney, Bachelor of Science (Agriculture)
Siegfried Irving William Hornkohl, Bachelor of Science (Architectural Engineering)
*Lloyd Earl Hostetler, Bachelor of Science (Electrical Engineering)
Orville Adlai Houg, Bachelor of Arts (Commerce)
Carl Gooch Howard, Bachelor of Science (Agriculture)[3]
Zen Hsieh, Bachelor of Science (Electrical Engineering)
Ching Lee Hsun, Bachelor of Arts (Liberal Arts)
Jin Jee Hsun, Bachelor of Science (Science)[1]
Andrew Joseph Huber, Bachelor of Science (Railway Electrical Engineering)
Edith Elizabeth Hudson, Bachelor of Arts (Liberal Arts)
George A Huff, Bachelor of Science (*As of the Class of 1892.*) (Science)[3]
Martin Collins Hughes, Bachelor of Science (Eelctrical Engineering)
Hazel Emily Hulburd, Bachelor of Arts (Liberal Arts)
Ivar Minus Hultman, Bachelor of Science (Science)[3]
Florence Jennie Hunt, Bachelor of Arts (Liberal Arts)
Alfred Hughllyn Hunter, Bachelor of Science (Civil Engineering)
*Harry Lee Husson, Bachelor of Science (Electrical Engineering)
Josephine Ladner Hutchison, Bachelor of Arts (Liberal Arts)
Ralph Imes, Bachelor of Arts (Liberal Arts)
Henry Newton Ingwersen, Bachelor of Science (Agriculture)
*Manly Seymour Jackson, Bachelor of Science (Architectural Engineering)
Harriet Lillian James, Bachelor of Arts (Liberal Arts)
Walter Pavy James, Bachelor of Science (Agriculture)[3]
Anna Zelma Elizabeth Jockisch, Bachelor of Arts (Liberal Arts)
*Donald Charles Johns, Bachelor of Science (Mining Engineering)
*Elfresh George Johnson, Bachelor of Science (Agriculture)
Julius Nicolai Johnson, Bachelor of Arts (Commerce)
Mary Fern Johnson, A.B., Bachelor of Music[3]
*Radford Murray Johnson, Bachelor of Science (Agriculture)
*Robert Eugene Johnson, Bachelor of Science (Electrical Engineering)
Ruby Emma Johnson, Bachelor of Arts (Liberal Arts)
James Martin Johnston,[4] Bachelor of Arts (Liberal Arts)
*Paul Evans Johnston, Bachelor of Science (Agriculture)
*Dudley Emerson Jones, Bachelor of Science (Architecture)
Frances Beulah Jones, Bachelor of Science (Agriculture)
*Frank William Jones, Bachelor of Science (Agriculture)
Paul Clifford Jones, Bachelor of Science (Electrical Engineering)
Walter Ortis Jones, Bachelor of Arts (Commerce)
Ehme John Joosten,[1] Bachelor of Science (Agriculture)
Frank Monteath Judson, Bachelor of Arts (Commerce)
Henry Wilbur Kamp, Bachelor of Arts (Liberal Arts)[3]
Adolph Henry Kaufman, Bachelor of Science (Science)[3]
Sherman Little Kell, Bachelor of Arts (Liberal Arts)
Arnold Raman Kemp, Bachelor of Science (Agriculture)
Kaywin Kennedy,[1] Bachelor of Arts (Liberal Arts)
Everett Frank Kent, Bachelor of Science (Agriculture)
Florence Ellen Kern, Bachelor of Science (Agriculture)
Julius Caesar Kerner, Bachelor of Science (Mechanical Engineering)
James Moss Ketch, Bachelor of Science (Electrical Engineering)
Helen Bertha Keusink, Bachelor of Arts (Liberal Arts)
George Wilson Kidd, Bachelor of Science (Civil Engineering)
Clarence Eugene Kimmel,[2] Bachelor of Arts (Liberal Arts)
Ruth Moore Kincaid, Bachelor of Arts (Liberal Arts)
*Edward Herschel King, Bachelor of Art (Commerce)
*Wendell Lathrop Kingsley, Bachelor of Science (Agriculture)

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[1] Degree conferred October 20, 1917.
[2] Degree conferred February 21, 1917.
[3] With thesis.
[4] Degree conferred August 10, 1917.

Alfred Richardson Kinsey, Bachelor of Science (Agriculture)
*Jack Kinsey, Bachelor of Science (Agriculture)
*John George Estill Kipp, Bachelor of Arts (Liberal Arts)
Bertha May Kirk, Bachelor of Arts (Liberal Arts)
Helen Marie Kirkpatrick, Bachelor of Arts (Liberal Arts)
Helen Mynette Kiser, Bachelor of Arts (Liberal Arts)
Nancie Klein, Bachelor of Arts (Liberal Arts)
Mildred Louise Klindworth, Bachelor of Arts (Liberal Arts)
*John Christian Knoche, Bachelor of Science (Agriculture)
*Harry Gaylord Knox, Bachelor of Arts (Liberal Arts)
Niels Alfred Knudsen, Bachelor of Science (Architectural Engineering)
Eloise Koch, Bachelor of Arts (Liberal Arts)
John Louis Kohn, Bachelor of Arts (Commerce)
Otto Peter Kolmer, Bachelor of Science (Agriculture)
Herbert John Krase, Bachelor of Science (Science)[1]
Robert Graham Kreiling, Bachelor of Science (Science)[1]
Amelia Krieg, Bachelor of Arts (Liberal Arts)
Otto Kriegl, Bachelor of Science (Electrical Engineering)
John Gustav Kriewitz, Bachelor of Science (Agriculture)
Louis Gustave Krug,[2] Bachelor of Science (Science)
Martin Billmire Kugler, Bachelor of Science (Agriculture)
John James Lacey, Bachelor of Science (Agriculture)
Gustaf Petrus Lagergren, Bachelor of Science (Architecture)
Walter Alexander Laing, Bachelor of Science (Agriculture)
Hallie Eunice Lamb, Bachelor of Arts (Liberal Arts)
*Howard Earl Lamb, Bachelor of Arts (Liberal Arts)
Guy Lanan, Bachelor of Science (Agriculture)
Adolph Walter Landstrom, Bachelor of Science (Science)[1]
Robert John Lascelles, Bachelor of Arts (Commerce)
William Grant Lathrop, Bachelor of Arts (Liberal Arts)[1]
Ralph E Lawrence, Bachelor of Science (Architecture)
Roland Hall Lawrence, Bachelor of Science (Mechanical Engineering)
Elmer Isidor Leander, Bachelor of Science (Civil Engineering)
Alfred Chang Lee, Bachelor of Science (Civil Engineering)
Frank Leggitt, Bachelor of Science (Agriculture)
*Lewis Harry Lehman, Bachelor of Science (Civil Engineering)
John Frederick Lemp, Bachelor of Science (Science)[1]
Alfred Nohe Lendman, Bachelor of Science (Electrical Engineering)
Aloysius Francis Lenzen, Bachelor of Arts (Liberal Arts)
Edward Lerch, Bachelor of Science (Architectural Engineering)
Madge Campbell Leslie, Bachelor of Arts (Liberal Arts)
Martin Charles Levinson, Bachelor of Science (Architectural Engineering)
*John Taylor Lewis, Bachelor of Science (Architectural Engineering)
Szu Kuang Li, Bachelor of Arts (Commerce)
Thian Kitt Lin, Bachelor of Arts (Commerce)
Mary Sefton Linder, Bachelor of Arts (Liberal Arts)
*Leon Mason Lindley, Bachelor of Science (Mechanical Engineering)
John Royer Lindsey, Bachelor of Science (Agriculture)
Harry Alexander Linendoll, Bachelor of Science (Science)[1]
*Elmer Walfred Linnard, Bachelor of Science (Agriculture)
*Adelbert Dudley Little, Bachelor of Science (Architectual Engineering)
Ethel Esther Little, Bachelor of Arts (Liberal Arts)
Frank Allyn Logan, Bachelor of Arts (Commerce)
Leonard Franklin Long, Bachelor of Science (Science)[1]
Clayton Benjamin Loomis, Bachelor of Science (Agriculture)
Francis Louret, Bachelor of Science (Agriculture)
*McDonald Lovell, Bachelor of Science (Architecture)
Bessie Lowry, Bachelor of Arts (Liberal Arts)
Ching Kui Lu, Bachelor of Science (Mechanical Engineering)
Ethel Lenore Ludwig, Bachelor of Arts (Liberal Arts)
Herman Hinman Lueder, Bachelor of Science (Architectural Engineering)
Roy Moore Lueder, Bachelor of Science (Architectural Engineering)
*Irwin Lytle Lummis, Bachelor of Science (Mechanical Engineering)
Jack Virtus Lund, Bachelor of Science (Civil Engineering)
Curt Carl Lundeen, Bachelor of Science (Architectural Engineering)
Arthur Nathaniel Lungren, Bachelor of Science (Mechanical Engineering)
Sidney Joseph Lurie, Bachelor of Science (Electrical Engineering)
Genevieve Aron Lusk, Bachelor of Science (Agriculture)
Gifford W Lutes, Bachelor of Science (Architecture)
Fred Raymond McCandlish, Bachelor of Science (Agriculture)
*Kenneth Butler McClellan, Bachelor of Science (Agriculture)
*James Forsyth McCloud, Bachelor of Arts (Commerce)
Homer Walter McCoy, Bachelor of Science (Agriculture)
Helen E McCullough, Bachelor of Arts (Liberal Arts)
*Thomas Treston McEvoy, Bachelor of Science (Agriculture)
Isabelle Georgia McKinnell, Bachelor of Arts (Liberal Arts)
Norman McKinney, Bachelor of Science (Agriculture)
Russell Leamer McKown, Bachelor of Science (Agriculture)
Laurence Claude MacMillan, Bachelor of Science (Electrical Engineering)
*Scott McNulta, Bachelor of Arts (Commerce)
*Elton Thomas Mackie, Bachelor of Science (Agriculture)
Grace Erminie Madden, Bachelor of Arts (Liberal Arts)
Wing Ngui Mah, Bachelor of Arts (Liberal Arts)

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[1] With thesis.
[2] Degree conferred February 21, 1917.

George Willis Mahn, Bachelor of Science (Architectural Engineering)
Krishna Mohan Maitra, Bachelor of Science (Railway Mechanical Engineering)
Ralph Kenneth Mangan, Bachelor of Science (Mechanical Engineering)
Marion Manley, Bachelor of Science (Architecture)
*Oris Rowe Manley, Bachelor of Arts (Commerce)
Marjorie Dorothea Mann, Bachelor of Arts (Liberal Arts)
Francis Pauline Mapel, Bachelor of Science (Agriculture)
Pauline Marbold, Bachelor of Arts (Liberal Arts)
Harry Markson, Bachelor of Science (Mechanical Engineering)
George Bernard Marx, Bachelor of Arts (Commerce)
*William Rankin Mathews, Bachelor of Arts (Commerce)
Leslie Blaine Maxwell, Bachelor of Arts (Commerce)
Loyal C Maxwell, Bachelor of Science (Science)[1]
Clifford Blaine May, Bachelor of Science (Agriculture)
Leo Shellabarger Mead, Bachelor of Arts (Commerce)
Wilbur Meek,[2] Bachelor of Arts (Commerce)
Carl Alfred Menzel, Bachelor of Science (Mechanical Engineering)
Cora Leone Merritt, Bachelor of Arts (Liberal Arts)
Alvin Frederick Meyer, Bachelor of Science (Agriculture)
Edith Anna Middleton, Bachelor of Arts (Liberal Arts)
*John Howard Midkiff, Bachelor of Science (Agriculture)
William Herman Minkema, Bachelor of Science (Mechanical Engineering)
Alba Agnes Mohr, Bachelor of Arts (Liberal Arts)
Louis Mohr, Bachelor of Science (Mechanical Engineering) Class of 1882
Juniata Ounita Molyneaux, Bachelor of Arts (Liberal Arts)
George Stuart Monroe, Bachelor of Science (Science)[1]
Thaddeus Lemert Montgomery, Bachelor of Arts (Liberal Arts)
Charles Stuart Montooth.[3] Bachelor of Science (Science)
Hubert Watson Moor, Bachelor of Science (Science)[1]
Irene Holbrook Moore, Bachelor of Arts (Liberal Arts)[1]
Katherine Mary Moran, Bachelor of Science (Agriculture)
Clara Adah Morey, Bachelor of Arts (Liberal Arts)
May Merboth Morgan, Bachelor of Arts (Liberal Arts)
Nelson Marvin Morris, Bachelor of Science (Mining Engineering)
*Ivan G Morrison, Bachelor of Science (Agriculture)
Florence Louise Moss, Bachelor of Arts (Liberal Arts)
Ruth Alice Moss, Bachelor of Arts (Liberal Arts)
Carl Peter Moyen, Bachelor of Science (Science)[1]
Carl Oscar Mueller, Bachelor of Science (Architectural Engineering)
Herbert Edward Mueller, Bachelor of Science (Architectural Engineering)
Edward Richard Mullins, Bachelor of Science (Architectural Engineering)
John Leonard Munson, Bachelor of Science (Agriculture)
Motosaburo Murata, Bachelor of Science (Electrical Engineering)
Elizabeth Adams Murduck, Bachelor of Arts (Liberal Arts)
Grace Mildred Murray, Bachelor of Arts (Liberal Arts)
Kyoichi Nakada, Bachelor of Science (Electrical Engineering)
Moki Nakayama, Bachelor of Science (Electrical Engineering)
*Julien Hequembourg Needler, Bachelor of Science (Mechanical Engineering)
*Jesse Ward Nelson, Bachelor of Science (Agriculture)
William Oscar Nelson, Bachelor of Science (Mechanical Engineering)
*Harold Vance Newlin, Bachelor of Arts (Liberal Arts)
Edward Sterling Nichol, Bachelor of Arts (Liberal Arts)
George William Nichol, Bachelor of Arts (Commerce)
Josephine Marie Nichols, Bachelor of Arts (Liberal Arts)
Cecil Richard Nickolls, Bachelor of Science (Agriculture)
*Fred Christian Norlin, Jr., Bachelor of Science (Civil Engineering)
*Dwight Reed Norris, Bachelor of Science (Civil Engineering)
Chester Adam Ochs, Bachelor of Arts (Commerce)
Ernest Allen Olander, Bachelor of Science (Civil Engineering)
Irwin Blaine Olin,[4] Bachelor of Arts (Commerce)
Arthur Alexis Olsen, Bachelor of Science (Agriculture)
Allen Richard Omeara, Bachelor of Arts (Commerce)
Kura Otani, Bachelor of Arts (Liberal Arts)
John Ekern Ott, Bachelor of Science (Mechanical Engineering)
*Percy Wright Ott, Bachelor of Science (Municipal and Sanitary Engineering)
*Gordon Otto, Bachelor of Science (Agriculture)
*Harrison George Overend, Bachelor of Science (Architecture)
*Ralph Marion Overton, Bachelor of Science (Mechanical Engineering)
Sela Isabel Paisley, Bachelor of Music[1]
John Robert Palfrey, Bachelor of Science (Agriculture)
Charles Shattuck Palmer, Bachelor of Science (Science)[1]
Catharine Elizabeth Parks,[4] Bachelor of Arts (Liberal Arts)
Glenn Tilford Patchill, Bachelor of Arts (Commerce)[1]
Joseph Julian Patterson, Bachelor of Science (Architecture)
Nellie Rand Patterson, Bachelor of Arts (Liberal Arts)
*John V Patton, Bachelor of Arts (Liberal Arts)
Homer Arnold Pearson, Bachelor of Science (Electrical Engineering)
Victor Anthony Pecchia, Bachelor of Science (Civil Engineering)
*Roy Lee Peck, Jr., Bachelor of Science (Civil Engineering)
*Russell Henry Pedler, Bachelor of Science (Mechanical Engineering)
Harry Louis Pelzer, Bachelor of Arts (Liberal Arts)[1]

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[1] With thesis.
[2] Degree conferred February 21, 1917.
[3] Degree conferred October 20, 1917.
[4] Degree conferred August 10, 1917

Harry Reed Pendarvis, Bachelor of Science (Electrical Engineering); Bachelor of Arts (Liberal Arts)
Mary Honora Pendergast, Bachelor of Arts (Liberal Arts)[1]
Stella Rebecca Percival, Bachelor of Music[1]
Nelle Perry, Bachelor of Arts (Liberal Arts)
Chester Almon Peterson, Bachelor of Science (Agriculture)
Reuben Walter Peterson, Bachelor of Science (Agriculture)
*Timothy Edwin Peterson, Bachelor of Science (Agriculture)
Frank Howard Pethybridge, Bachelor of Science (Agriculture)
Manley Ross Petty, Bachelor of Science (Agriculture)
*Louis Herman Pfeffer, A. B., Bachelor of Science (Agriculture)
Conrad Louis Pfeiffer, Bachelor of Science (Electrical Engineering)
Rudolf Salesbury Pfeiffer, Bachelor of Science (Mechanical Engineering)
Lois Philbrick, Bachelor of Arts (Liberal Arts)
Eugene Martin Phillips,[2] A. B., Bachelor of Science (Architectural Engineering)
Minnie Alice Phillips, Bachelor of Arts (Liberal Arts)
John Pieper, Bachelor of Science (Agriculture)
*Benjamin Elmer Pierce, Bachelor of Science (Civil Engineering)
Edwin Ivan Pilchard, Bachelor of Science (Agriculture)
*Leonard Sproule Poor, Bachelor of Arts (Liberal Arts)
Harry Hubert Porter, Bachelor of Science (Mining Engineering)
Urban Stuart Postel, Bachelor of Arts (Commerce)
Harriet Leotine Postlewait, Bachelor of Science (Agriculture)
Glenn Edward Potter, Bachelor of Science (Electrical Engineering)
J Orin Powers, Bachelor of Arts (Liberal Arts)
*John Howard Powers, Bachelor of Arts (Commerce)
*Ray Austin Powers, Bachelor of Science (Agriculture)
Melville Halsey Price,[3] Bachelor of Science (Science)
Ada Roberta Pugh, A. B., Bachelor of Science (Agriculture)
William Thomas Purcell, Bachelor of Science (Architectural Engineering)
*John Elder Pyron, Bachelor of Science (Science)[1]
Coramae Quandt, Bachelor of Science (Agriculture)
Harry Quick, Bachelor of Science (Civil Engineering)
Ralph Skancke Raaberg, Bachelor of Science (Architectural Engineering)
Ivan Racheff, Bachelor of Arts (Liberal Arts)
Paul Albert Raibourn, Bachelor of Science (Electrical Engineering)
Crawford John Ramsay, Bachelor of Arts (Liberal Arts)
John Hubert Ramser, Bachelor of Science (Mechanical Engineering)
Grace Louise Randall, Bachelor of Arts (Liberal Arts)
Cora Creagar Randolph, Bachelor of Arts (Liberal Arts)
Willard Parminter Ranney, Bachelor of Science (Agriculture)
Sampson Miles Raphaelson, Bachelor of Arts (Liberal Arts)
Edwin Wallace Rapp, Bachelor of Arts (Liberal Arts).
Mary Rathsack, Bachelor of Arts (Liberal Arts)
Maurice Edwin Reagan, Bachelor of Science (Electrical Engineering)
*Frederick James Reed, Bachelor of Science (Agriculture)
Maurice Johnson Reed, Bachelor of Science (Mining Engineering)
John Corwin Reeder, Bachelor of Arts (Liberal Arts)
Ernest Ferdinand Rehnquist, Bachelor of Science (Civil Engineering)
*Harvey Russell Richardson, Bachelor of Science (Electrical Engineering)
Warren McLellan Richmond, Bachelor of Science (Agriculture)
Janet Rinaker, Bachelor of Arts (Liberal Arts)
*John Gilman Ritter, Bachelor of Science (Architectural Engineering)
Theodore Roane,[3] Bachelor of Arts (Liberal Arts)
*Malcolm Douglas Roberts, Bachelor of Science (Agriculture)
Miriam Selina Robertson, Bachelor of Science (Agriculture)
Ruth Love Robinson, Bachelor of Science (Agriculture)
Warren Isaac Robinson, Bachelor of Science (Agriculture)
Paul Thomas Rockey, Bachelor of Science (Architectural Engineering)
Hedwig Elizabeth Roesner, Bachelor of Arts (Liberal Arts) Bachelor of Music[1]
Elsie Marie Rogers, Bachelor of Arts (Liberal Arts)
*Henry Sheldon Rogers, Bachelor of Science (Agriculture)
Frank Philip Rohrer,[4] Bachelor of Arts (Liberal Arts)
Edwin George Roos, Bachelor of Arts (Commerce)
George Howard Roscoe, Bachelor of Science (Agriculture)
Harry Albert Ross, Bachelor of Science (Agriculture)
Charles Barr Rowa, Bachelor of Science (Architecture)
Jack LeRoy Rowe,[2] Bachelor of Science (Electrical Engineering)
James Rowe, Bachelor of Science (Mechanical Engineering)
*Charles Henry Ruedi, Bachelor of Arts (Commerce)
*W B Rundle, Bachelor of Science (Agriculture)
Charles Morton Rundles, Bachelor of Arts (Liberal Arts)
Elton Cromwell Runneberg, Bachelor of Science (Agriculture)
*Jasper Philip Russett, Bachelor of Science (Architecture)
Benjamin Francis Rusy, Bachelor of Science (Agriculture)
Florence Rutherford, Bachelor of Arts (Liberal Arts)
Gladys Deforest Saffell, Bachelor of Arts (Liberal Arts)
Anna Ellen Sager, Bachelor of Arts (Liberal Arts)
Juanita Lorranine Sanford, Bachelor of Arts (Liberal Arts)
William Chauncey Savage, Bachelor of Science (Agriculture)
William Elliott Savage,[2] Bachelor of Arts (Liberal Arts)
*Edward George Schaumberg, Bachelor of Science (Architecture)

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[1] With thesis.
[2] Degree conferred October 20, 1917.
[3] Degree conferred August 10, 1917.
[4] Degree conferred February 21, 1917.

Max Schecht,[1] Bachelor of Arts (Liberal Arts)
*Ferdinand John Schleifer, Bachelor of Science (Agriculture)
Arthur Charles Schneider, Bachelor of Science (Civil Engineering)
Arthur John Schoch, Bachelor of Science (Electrical Engineering)
Herbert Frank Schoene,[1] Bachelor of Science (Architectural Engineering)
Harold Henry Schroeppel, Bachelor of Science (Electrical Engineering)
John A Schulz, Bachelor of Science (Science)[2]
Dixie Howard Schumacher, Bachelor of Arts (Liberal Arts)
Gerald Russell Scott, Bachelor of Science (Agriculture)
*Ralph A Scott, Bachelor of Science (Agriculture)
Roy Sunderland Scott, Bachelor of Science (Agriculture)
Edna Sellner, Bachelor of Arts (Liberal Arts)
Mattie Alice Sense, Bachelor of Science (Agriculture)
James Charles Sharp, Bachelor of Science (Agriculture)
Frederick Wood Shaw, Bachelor of Science (Civil Engineering)
Mary Lucille Shay, Bachelor of Arts (Liberal Arts)[2]
Haven McKendree Sheets, Bachelor of Science (Agriculture)
*Charles Howard Sheppard, Bachelor of Science (Civil Engineering)
Mary Beall Sheridan, Bachelor of Arts (Liberal Arts)
John Chauncey Sherrick, Bachelor of Science (Architectural Engineering)
Ruth Elma Shott, Bachelor of Arts (Liberal Arts)
Humphrey Oliver Siegmund, Bachelor of Science (Electrical Engineering)
*Milton Gans Silver, Bachelor of Arts (Liberal Arts)
Rayna DeCosta Simons, Bachelor of Arts (Liberal Arts)
*Luther Franklin Simpson, Bachelor of Science (Mechanical Engineering)
Nelle Lucille Simpson, Bachelor of Science (Agriculture)
Sebastian Solon Simpson, Bachelor of Arts (Liberal Arts)
Thomas Moore Simpson, Bachelor of Science (Agriculture)
Charn Jit Singh, Bachelor of Science (Electrical Engineering)
George Edward Sladek, Bachelor of Science (Ceramic Engineering)
Amelia Marie Sloan, Bachelor of Science (Agriculture)
J P Smallwood, Bachelor of Arts (Commerce)
Alfred Smart, Bachelor of Science (Municipal and Sanitary Engineering)
*Chauncey Harrison Smart, Bachelor of Science (Agriculture)
*Edward Smidl, Bachelor of Science (Architectural Engineering)
Clara Mabel Smith, Bachelor of Arts (Liberal Arts)
*Clarence Walter Smith, Bachelor of Arts (Liberal Arts)
*George Leslie Smith, Bachelor of Science (Agriculture)
Gladys Louise Smith, Bachelor of Arts (Liberal Arts)
*John Wesley Smith, Bachelor of Science (Mechanical Engineering)
Barbara Belle Smohl, Bachelor of Arts (Liberal Arts)
*William Everett Smoot, Bachelor of Science (Agriculture)
Jose Cuba de Souza, Bachelor of Science (Railway Civil Engineering)
Cynthia Eugenia Spencer, Bachelor of Arts (Liberal Arts)
Raymond Arthur Sproull, Bachelor of Arts (Liberal Arts)
George Kasson Squier, Bachelor of Science (Mechanical Engineering)
Willis Preston Stall, Bachelor of Science (Agriculture)
Elmer Leon Stanley, Bachelor of Science (Agriculture)
Verner Starner, Bachelor of Science (Science)[2]
Frederick Louis Steinhoff, Bachelor of Science (Ceramic Engineering)
Ethel Gertrude Stephens, Bachelor of Arts (Liberal Arts)[2]
Richard William Stevens, Bachelor of Science (Agriculture)
Wayne McKenzie Stevens, Bachelor of Science (Agriculture)
Ailsie Miller Stevenson, Bachelor of Science (Agriculture)
Dorothy Stevenson, Bachelor of Science (Agriculture)
*Carl Russell Stewart B.S., Bachelor of Science (Agriculture)
Frank Stewart, Bachelor of Arts (Liberal Arts)
Frank Samuel Stewart, A.B., Bachelor of Science (Agriculture)
Thomas Elmer Stockdale, Bachelor of Science (Civil Engineering)
George Wellington Stoddard, Bachelor of Science (Architectural Engineering)
Charles Arthur Stone, Bachelor of Science (Ceramic Engineering)
Florence Thomas Stoutzenberg, Bachelor of Science (Agriculture)[2]
Grace Bruce Stratton, Bachelor of Arts (Liberal Arts)
Donald Jay Strauch,[1] Bachelor of Science (Railway Civil Engineering)
Joseph Kenneth Stringer, Bachelor of Arts (Commerce)
James Kibbe Strong, Bachelor of Science (Agriculture)
*Truman Jefferson Strong, Bachelor of Science (Architecture)
En-Lin Sun,[1] Bachelor of Science (Agriculture)
Constance Sutcliffe,[1] Bachelor of Arts (Liberal Arts
Donald Tyler Swaim, Bachelor of Arts (Commerce)
Fay Wood Swartz, Bachelor of Music[2]
*Carl Elmer Swenson, Bachelor of Science (Mechanical Engineering)
Faith Gretchen Swigart, Bachelor of Arts (Liberal Arts)
John Findley Taggart, Bachelor of Science (Agriculture)
Thomas Sheridan Tanner, Bachelor of Science (Architectural Engineering)
Grace DeEtte Taylor, Bachelor of Science (Agriculture)
Mary Etta Teeters, Bachelor of Arts (Liberal Arts)
Emilio Alves Teixeira,[1] Bachelor of Science (Mining Engineering)
Frank Hulit Tendick,[3] Bachelor of Science (Science)
Katherine Randall Tener, Bachelor of Arts (Liberal Arts)[2]
Robert Byron Terry, Bachelor of Arts (Liberal Arts)
Charles Brooks Thacler, Bachelor of Science (Agriculture)

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[1] Degree conferred October 20, 1917.
[2] With thesis.
[3] Degree conferred February 21, 1917.

Ross Henry Thiele, Bachelor of Science (Architecture)
Charles Frederick Thomas, Bachelor of Arts (Liberal Arts)
Joe Lee Thomas, A.B., Bachelor of Science (Agriculture)
Stanley Jeremiah Thomas, Bachelor of Science (Municipal and Sanitary Engineering)
*George S Thompson, Bachelor of Arts (Commerce)
Orlando Stephen Thompson, Bachelor of Science (Agriculture)
*Russell Hopkins Thompson, Bachelor of Arts (Commerce)
William White Thompson, Bachelor of Arts (Liberal Arts)
*James Hotchkiss Ticknor, Bachelor of Science (Architectural Engineering)
Malcoln Newton Todd, Bachelor of Arts (Liberal Arts)
*Thomas William Tolmie, Bachelor of Science (Architectural Engineering)
Teh-Chang Tong,[1] Bachelor of Arts (Liberal Arts)
Alpha Caroline Tornquist, Bachelor of Arts (Liberal Arts)
Alexander McJunkin Tower, Bachelor of Science (Railway Electrical Engineering)
Clement Eddy Trout,[2] Bachelor of Science (Agriculture)
William Chilton Troutman, Bachelor of Arts (Liberal Arts)
Gustave Morton Tucker, Bachelor of Science (Ceramic Engineering)
*Alexander Harvey Turner, Bachelor of Science (Agriculture)
*Charles Edward Turner, Bachelor of Arts (Liberal Arts)
*Chester Charles Turner, Bachelor of Science (Agriculture)
James Pierce Tuthill, Bachelor of Science (Civil Engineering)
Bruce Van Cleave,[1] Bachelor of Arts (Liberal Arts)
Frank Macknet VanDeventer, Bachelor of Science (Mechanical Engineering)
*Earl Henry Van Dyke, Bachelor of Science (Agriculture)
*Alex Van Praag, Jr., Bachelor of Science (Civil Engineering)
Paul Keith Van Winkle, Bachelor of Arts (Commerce)
Earl Charles Vedder, Bachelor of Arts (Liberal Arts)
*Moris Hurford Vernon, Bachelor of Science (Civil Engineering)
Willard Lewis Viers, Bachelor of Arts (Liberal Arts)
Golda May Wadsworth, Bachelor of Arts (Liberal Arts)
Karl Marshall Waggoner, Bachelor of Science (Architecture)
Guy Earl Wakeland, Bachelor of Science (Agriculture)
*Abner Weston Waldo, Bachelor of Arts (Commerce)
*Abram Franklin Walker, Bachelor of Science (Agriculture)
Stanton Walker, Bachelor of Science (Municipal and Sanitary Engineering)
Margaret Magdalene Walkerly, Bachelor of Arts (Commerce)
Harriet Edythe Wall, Bachelor of Arts (Liberal Arts)
Edgar Dearborn Wallace, Bachelor of Arts (Liberal Arts)
Joseph Charles Walmer, Bachelor of Arts (Commerce)
Stephen Albert Walser, Bachelor of Science (Agriculture)
John Edward Walsh,[1] Bachelor of Science (Electrical Engineering)
*Leo Bernard Walsh, Bachelor of Science (Agriculture)
Prentice Thurman Walters, Bachelor of Arts (Liberal Arts)
*James Kelly Walton, Jr., Bachelor of Science (Agriculture)
*Mamierre Barlow Ware, Bachelor of Science (Agriculture)
Lambertus Warmolts, Jr., Bachelor of Arts (Liberal Arts)
Daniel Edwin Warren, Bachelor of Science (Agriculture)
Louise Hale Waterman, Bachelor of Arts (Liberal Arts)
Mary Elizabeth Waterman, B.S., Bachelor of Arts (Liberal Arts)
*Ray Marcus Watson, Bachelor of Science (Agriculture)
Lillian Ruth Weaver, Bachelor of Arts (Liberal Arts)
Frederick Farrer Webster, Bachelor of Science (Agriculture)
Gladis Gilbert Webster, Bachelor of Science (Agriculture)
Ruth Antoinette Weenink, Bachelor of Science (Agriculture)
Ruth Carmen Weil, Bachelor of Arts (Liberal Arts)
Laura Elizabeth Weilepp, Bachelor of Arts (Liberal Arts)
Elizabeth Weinberg, Bachelor of Science (Agriculture)
Marion Virginia Weiss, Bachelor of Arts (Liberal Arts)
*David Charles Welty, Bachelor of Science (Agriculture)
Linnie Minnie West, Bachelor of Arts (Liberal Arts)
James Herron Westbay, Bachelor of Science (Railway Mechanical Engineering)
Adelaide Cynthia Wheeler, Bachelor of Science (Agriculture)
Agnes Chloe White, Bachelor of Arts (Liberal Arts)
Marion Kingsley White, Bachelor of Science (Agriculture)
Vivian Justina Whiting, Bachelor of Arts (Liberal Arts)
Joseph Lafeton Whitney, Bachelor of Arts (Commerce)
*Leonard Hilliard Whitney, Bachelor of Science (Mining Engineering)
Jennie Alma Whitten, Bachelor of Arts (Liberal Arts)
Bertha Harris Wiles, Bachelor of Arts (Liberal Arts)
Harry Houghes Wiley,[3] Bachelor of Science (Civil Engineering)
Robert Nicholas Wilford, Bachelor of Science (Agriculture)
Chester Albert Williams, Bachelor of Science (Architecture)
Allen Center Wilson, Bachelor of Science (Civil Engineering)
*Grover C Wilson, Bachelor of Science (Electrical Engineering)
Vera Edna Wirt, Bachelor of Arts (Liberal Arts)
Fremont Philip Wirth,[1] Bachelor of Arts (Liberal Arts)
Walter Valentine Wirth, Bachelor of Science (Science)[4]
Elizabeth Pauline Wisegarver, Bachelor of Arts (Liberal Arts)
Yin Woo, Bachelor of Arts (Commerce)
Elsa Caroline Wolf,[1] Bachelor of Science (Agriculture)
Helen Ernestine Woodcock, Bachelor of Arts (Liberal Arts)

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[1] Degree conferred October 20, 1917.
[2] Degree conferred February 21, 1917.
[3] Degree conferred August 10, 1917.
[4] With thesis.

Harry C Woodham, A.B., Bachelor of Science (Agriculture)
Andrew Chevalier Woods, Jr., Bachelor of Science (Mechanical Engineering)
*Ralf Charles Woods, Bachelor of Science (Agriculture)
*Ray James Woods, Bachelor of Arts (Commerce)
Harold Francis Woodyatt, Bachelor of Arts (Commerce)
Joseph William Wright, Bachelor of Science (Ceramic Engineering)
Wei Yoh Wu, Bachelor of Science (Electrical Engineering)
Tsao Shing Yang, Bachelor of Science (Electrical Engineering)
Gan Chyo Yee, Bachelor of Science (Science)[1]
*Arthur Tatarian Young, Bachelor of Arts (Commerce)
Jan Paul Zaleske, Bachelor of Science (Agriculture)

THE COLLEGE OF LAW

The Degree of Bachelor of Laws

Lloyd Bradley
*William Carl Choisser
Sterling Ross Cunningham
Virgil Henry Duvall, A.B. (*University of North Dakota*), 1915
Michael Joseph Faletti
*Raymond Lorimer Grantz
John Leon Hanmore
William Rutledge Harris, A.B. (*Lombard College*), 1914
Paul Henry Heineke
*Robert Earl Hill
Albert Bernard Holecek
*Russell Brooke Liedel
*Donald Romain Moffett
William Raymond Morrison
*Ernest Howard Pool, A.B., 1915
*Guy Benjamin Reno, A.B., 1915
*Earl Bruce Simpson
Vernon Thompson Stevens, A.B., 1915
*Craig Van Meter
*William Erastus Wheeler, Jr.

The Degree of Doctor of Law

*Essel Ray Dillavou, A.B., 1915
Leslie Godfrey George, A.B., 1915
Benjamin Wham, A.B., 1915

THE LIBRARY SCHOOL

The Degree of Bachelor of Library Science

Wintress Brennan, A.B., 1914
Ella Seaver Campbell, A.B. (*Morningside College*), 1913
Lillie Cilley, A.B. (*Grinnell College*), 1914
Florence Margaret Craig, A.B. (*University of Minnesota*), 1914
Florence Hawley Crouse, A.B. (*Tulane University*), 1910
Ruth Edith Hammond, A.B. (*Drury College*), 1914
Nellie Marie Signor, A.B., 1912
Cena Lavina Sprague, A.B. (*University of North Dakota*), 1913
Jessie Beatrice Weston, Ph.B. (*University of Chicago*), 1907
Lois May Woods, B.L. (*University of California*), 1915

THE COLLEGE OF MEDICINE

The Degree of Bachelor of Science

(Conferred June 9, 1917, in Chicago)

Clifford Oakley Armstrong
David Solomon Beilin
Walter Joseph Connell
Winfred Peterson Dana
Ida Eby, A.B.
Max Eleazer Fisch
Nathan Henry Fox
John Howden Fraser, M.S.
Wayne Bernard Granger, A.B.
Jacob Rachmial Greenfield
Alice Kassie Hall, A.B.
Harlow James Hanson, B.S.
Paul Milton Hardinger
Arthur Justin Godtfred Henderson, A.B.
John William Hilbert
Orion Chester Jones
Everett Clyde Kelly
Herman Benzion Kipnis
Samuel Azor Levinson
William Alexander Malcolm
Morris Marcus
Gertrude Evelyn Moulton, A.B.
Robert Rowlane Mustell
Hugh Stanley McGuinness
Clara Marie Ochs
Francis Piaseczynski
Duane Willard Propst, A.B.
William Turner Rogers
Harry Louis Rosenburg
Joseph Andrew Schachter
Elmer Jacob Schmidt
Paul Louis Schroeder
Herbert Milton Tharp
Metodi Velitchkoff
Emil Vrtiak
Louis Francis Waldmann
George Lynn Weaver
Clarence Leonard Whitmire
Earl Willbre Williamson

The Degree of Doctor of Medicine and Surgery

(Conferred June 9, 1917, in Chicago)

*Victor Scott Armstrong, B.S.
Harry Webb Benjamin, B.S.
*Maurice Aurelius Berge
*William Armstrong Byrnes
Herbert Chapman Carothers
Howard E Curl, A.B.
Edwin Ralph May
Henry James McCoy
*Edward Charles Meggers
Lincoln Harrison Norwood
Clarence Willard Olson
Isadore Pilot

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[1] With thesis.

Louis Paul Dame
Shakir Elias Far
Sixto Acosta Francisco
Virgil Martha Gilchrist, B.S.
*Waldo Emerson Golden, A.B.
Samuel Golub, B.S.
Calton Barney Grissom
Basil Orman Hartwell
*Gustav John Hildebrand
Harold Hershal Hughart
*Louis Iverson
*James Robinson Jeffrey, Jr.
Martin Bushnell Jelliffe
Morris Baron Karatz
Harvey Louis Langlois, A.B.
Samuel Brody Leiser
Count Rochambeau Lovellette
Hartley Farnham Mars, Ph.C.
Leon Wade Martin, Ph.C.
Rudolph Charles Radabaugh, B.S.
Rafael Alpuche Ramos
James Henry Ray
Hallace Rector Royster
Spero M Salpas
George Edward Sanders, B.S.
Herbert Victor Louis Sapper, B.S , A.B.
Frank Joseph Sauer
Harry Sered
James Craig Small, B.S.
James Stevenson
Armand Kredell Sutch
Newman Marion Sykes, B.S.
Adam Leo Szwajakart
*James Russell Thomas
Edmund Amos Welden
Mary Edith Williams, A.M.
Frank Wojniak

THE COLLEGE OF DENTISTRY

The Degree of Doctor of Dental Surgery

(Conferred June 9, 1917, in Chicago)

Sanford Anderman
Martin Rudolph Anderson
William Glen Baird
Edgar Graham Beane
Cecil Raymond Conroy
John Lewis Dolson
Egner Amandus Eklund
John Henry Felz
Harry Vier Franklin
Charles Francis Franzwa
Lee Carlton Hibbard
Dean Elbert Ihde
Joseph Edward Jaros
Frank Alfred Jarrett
Hiroshi Kawamura
Kenneth Mason Kern
Wauclau Howard Kubacki
Carl Lee
Richard Grant Lincoln
Harral Richard Johnson
James Dwight Mershimer
James Lee McClurkin
Charles Anton Nemecek
John Michael Oelschlager
Theodore Charles Ostrowski
Edward Allen Rubin
Albert Francis Schiltz
Paul James Secrest
Victor James Shalek
Robert Isadore Sherman
Burne Olin Sippy
Barnett Quillen Smith
Lee Abraham Tark
George Lester Weir
Leslie George White
John Francis Wilson
Harry Winsberg
William Benjamin Wynkoop

THE SCHOOL OF PHARMACY

The Degree of Pharmaceutical Chemist

(Conferred June 9, 1917, in Chicago)

Ednah Blanche Anderson
Ernesto Vazques Benedicto, B.S.
Samuel Solman Kaplan
Harry Hlia Latsis
Leo Harold Shapiro
Irvin Miles Slepicka
Ralph Rickey Thoroman, Ph.G

The Degree of Graduate in Pharmacy

(Conferred June 9, 1917, in Chicago)

Oliver Toby Agdesteen
Benjamin William Altstaedt
Corydon Aephalia Babbitt
Arthur M Bakkers
Charles Bidwell
William Bloch
Irwin Bloom
Reuben Roy Borovik
Guillermo Calderon
Carl Bernard Christiansen
James Joseph Chochola
Charles Percival Datz
Russell Lowell Dillow
John Patrick Downey
Hattie Adela Dyniewicz
Ferdinand John Feigl
Alphonse Ferring
Benjamin Goldman
Carl Francis Haffner
Grant Henry Heidbreder
Clement Jordan
Richard Marshall Kaminski
Oscar Ludvick Lundgren
William James McDonald
Walter Thomas McGinnis
Bruce Scott Marshall
James Edwin Melvin
Vincent Robert Menella
Carl Theodore Miller
Herbert Leonard Neumann
Hiram Vanderbilt Nichols
Bernice Antoinette Ostrowski
Alice Eliska Pelikan
Emil Paul Rauschert
Garnsie H Robinson
Miguel Angel Roman
Rudolph Johannes Schobert
Lyle Albert Seibert
Dayle Albert Snyder
Edward Diedrich Steffen
Perrie Clayton Still
Omar Harwell Whittington
Charles Harvey Wilson
Vincent Andrzelczyk (Class of 1916)
James Francis Bradlby (Class of 1916)
Anna Belle Brummall (Class of 1916)
Victor Elmer Erickson (Class of 1916)
Frank Marsicano[1] (Class of 1916)
Orazio Mazzei (Class of 1916)
Mark Eldon Neville (Class of 1915)
Domingo Poli (Class of 1915)
Young Rey (Class of 1915)
Walter Alanson VanderBogart (Class of 1915)
Richard Van Kempema (Class of 1916)

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[1] Degree conferred October 20, 1917.

THE GRADUATE SCHOOL

The Degree of Master of Arts

In Botany

Chi Nyok Wang, A.B. (*Mount Holyoke College*) 1916

In Chemistry

Cecil Wayne Boyle, A.B. (*DePauw University*) 1910
Ralph Hipple Dean, A.B. (*Lake Forest College*) 1916
Herbert Ephraim French, A.B. (*Morningside College*) 1915
Ralph William Hufferd, A.B. (*Washington University*) 1915
Louis Jordan, A.B. (*Bates College*) 1915
Margaret Campbell Perry, A.B., 1915
Lloyd Hilton Reyerson, A.B. (*Carleton College*) 1915
James Keel Reed, A.B. (*Butler College*) 1915
Helen Updegraff, A.B. (*Cornell University*) 1915
Lansing Sadler Wells, A.B. (*University of Montana*) 1915
Leonard Francis Yntema, A.B. (*Hope College*) 1915

In Classics

Miriam Cynthia Akers, A.B. (*Illinois College*) 1916
Dorothy Lucile Cuthbert, A.B., 1916
Maud Katherine McLaughlin, A.B. (*Knox College*) 1909
Ethel Ruth Murry, A.B. (*Morningside College*) 1909
Adolph Frederick Pauli, A.B., 1916
Gwladys Ellen Roberts, A.B. (*Hanover College*) 1916
Rachel Louise Sargent, A.B. (*Bates College*) 1914

In Economics

thel Louise Bedient, A.B. (*Albion College*) 1916
Pembroke Holcomb Brown, A.B., 1915
Tso Chang Hao, A.B., 1916
Paul Kenneth Knight, A.B., 1916
Goro Mikami, B.C.S. (*Waseda University*) 1912
Milton Nels Nelson,[1] A.B., 1915
Kenneth Dwight Ross, A.B., 1916

In Education

Harriett Josephine Berninger, A.B., 1915
Roy Lefevre Davis, A.B., A.M. (*Illinois Wesleyan University*) 1915, 1916
Alfred William Gross,[1] Ph.B. (*North-Western College*) 1909
Bruce Quin Hoskinson, A.B. (*Union Christian College*) 1905, A.B., 1916
Lester Seaman Jones, B.S. (*Northwestern University*) 1905
Dora Keen,[1] A.B. (*Georgetown College*) 1916
Augusta May Krieger, A.B., 1910
Kichijiro Kumano,[2] (*Hiroshima Higher Normal College*) 1908
Harry Charles McKown,[1] B.S. (*Knox College*) 1913
Leslie Ray Marston, A.B. (*Greenville College*) 1916
Tsunekichi Mizuno,[1] A.B. (*Hiroshima Normal College*) 1908
Charles Dickens Lewis, B.Pd. (*University of Kentucky*) 1901
Samuel Jay McComis, B.L. (*Berea College*) 1915
Thirza May Pierce, A.B., 1911
Albert Merritt Santee, A.B., 1916

In English

Mildred Barnes, A.B. (*Vassar College*) 1912
Frank Warren Clippinger, A.B. (*Wabash College*) 1916
Beatrice Virginia Copley, A.B., 1915
Alice Mary Doane, A.B. (*Earlham College*) 1914
Lucy Ray Foster, Ph.B (*Syracuse University*) 1908
Elizabeth Leah Fullenwider, A.B. (*James Millikin University*) 1916
Marcus Selden Goldman, A.B. (*Miami University*) 1916
Vera Elizabeth Jordan, A.B. (*Drake University*) 1909
Mac E Leach, A.B., 1916
Mary Esther Pfeil, A.B., 1908
Dorothy Sutcliffe, A.B., 1916
Carryl Nelson Thurber, A.B. (*Cornell University*) 1908

In Entomology

Willis James Nolan, A.B. (*Western Reserve University*) 1914
Herbert Frank Seifert, A.B., 1916
Charles Stockman Spooner, A.B. (*Cornell University*) 1907

In German

Margaret Lola Goldsmith, A.B. (*Illinois Woman's College*) 1916
Helena Marie Ulrici, A.B. (*Rockford College*) 1915
Robert Paul Zimmerman, A.B., 1913

In History

Verna Lucille Cooley, A.B. (*Knox College*) 1913
Louise Burnham Dunbar, A.B. (*Mount Holyoke College*) 1916
Helen Elizabeth Francis, A.B., 1916
Harriett Wells Hobler, (Mrs.) A.B. (*Rockford College*) 1882
Elmo Paul Hohman, A.B., 1916
Benjamin Edward Ludvik, A.B., 1916
Sebastian Solon Simpson
Orla Alamon Towns,[2] A.B., 1912

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[1] Degree conferred October 20, 1917.
[2] Degree conferred August 10, 1917.

In Household Science
Hilda Marion Croll, A.B., 1916
Marguerite Elston Gauger, A.B., 1913

In Mathematics
John Sherman Beekley, A.B. (*Miami University*) 1915
John Ezra Dotterer, A.B. (*Blue Ridge College*) 1912
Charles Morse Huffer, A.B. (*Albion College*) 1916

In Physics
Albert Washington Marker,[1] Ph.B. (*North-Western College*) 1907
William Walter Merrymon, A.B. (*University of Missouri*) 1912
Bird Richard Stephenson, A.B. (*Albion College*) 1916

In Political Science
William Arthur Dunham, A.B. (*Washington University*) 1914
Earle Underwood Rugg, A.B., 1915
John Lawrence Teare, A.B. (*Monmouth College*) 1916

In Romance Languages
George Lewis Doty, A.B. (*Albion College*) 1916, B.S., 1912
Rafael Arcangel Soto, A.B., 1915
Jane Coulson Watson, A.B., 1915

In Sociology
William Samuel Hoffman,[2] A.B. (*Greenville College*) 1916

In Transportation
Lan Sung Chen, A.B., 1916
George Burr McMillen, A.B., 1915

In Zoology
Lloyd Blackwell Dickey, A.B. (*Fargo College*) 1915
Robert Hills Kingman, A.B. (*Washburn College*) 1913
Ernest Wilford Seyster, A.B., 1915
Lola Ernesta Swift, A.B. (*Mount Morris College*) 1911

The Degree of Master of Science

In Agronomy
Gilbart Hooper Collings,[1] B.S. (*Virginia Polytechnic Institute*) 1915
Samuel Sylvester Davis, B.S., 1915
Alva Elisha McCoy, B.S., 1916
John Pieper
William Brown Oldham, B.S. (*Utah Agricultural College*) 1910
Ernest Rudolf Schulz, B.S., 1916
Roscoe Elmo Stephenson, B.S. (*Purdue University*) 1915
Ernest Van Alstine, B.S. (*Michigan Agricultural College*) 1907
George William Walker, B.S., 1916
Edward Harvey Walworth, B.S., 1913
Charles Julius Willard, B.S. (*Kansas Agricultural College*) 1908, B.S., 1910

In Animal Husbandry
Worth Arthur Allison, B.S., A.B., 1916
William Garfield Kammlade, B.S. (*University of Wisconsin*) 1915
John Calvin Quimby, B.S. (*Ohio State University*) 1912
Te Chang Wang, B.S., 1916
Walter Leonard Williams, B.S. (*Wilmington College*) 1912, B.S. (*Ohio State University*) 1914
Joseph Rossiter Ziesenheim, B.S. (*Pennsylvania State College*) 1915

In Architectural Engineering
William Love Parish, B.S., 1916

In Bacteriology
Cecil Robert Gross, B.S. (*Cornell University*) 1915

In Botany
Edward George Lauterbach, B.S., 1915

In Chemistry
John Bernis Brown, B.S., 1915
William Thoreau Bryant,[3] B.S. (*Texas A. and M. College*) 1911
Ross Earlby Gilmore,[1] A.B., A.M. (*McMaster University*) 1911, 1913
William Gharrett Jordan, B.S. (*Drake University*) 1913
Sakae Keitoku, A.B., 1916
Friend Lee Mickle,[3] A.B. (*Allegheny College*) 1911
James Harris Olewine, B.S. (*Pennsylvania State College*) 1915
Theodore Gerald Wellesley Reinecke, A.B. (*University of Cape of Good Hope*)
Watson Russell Sayre, B.S. (*West Virginia University*) 1914
Horace Abbott Shonle, B.S., 1916
Carl Henry Siever, A.B. (*University of Kansas*) 1913
Irene Fern Smith, B.S., 1915
Allen Edwin Stearn, A.B., A.M. (*Stanford University*) 1915, 1916
William Alexander Van Winkle, B.S. (*University of Michigan*)1911

In Civil Engineering
Camillo Weiss, C.E. (*Kaiserlich-Koenigliche Technische Hochschule*, Vienna) 1910

In Dairy Husbandry
William Harold Chambers, B.S., 1915
William Barbour Nevens,[3] B.S. (*University of Wisconsin*) 1914
Harry Montgomery Weeter, A.B. (*Allegheny College*) 1911

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[1] Degree conferred February 21, 1917.
[2] Degree conferred August 10, 1917.
[3] Degree conferred October 20, 1917, as of June 13, 1917.

In Electrical Engineering
Philip Sheridan Biegler, B.S., E.E. (*University of Wisconsin*) 1905, 1915
John Williams Davis, M.E. (*Cornell University*) 1910
Harry Rhinehardt Fritz, E.E. (*University of Texas*) 1914
Abner Richard Knight, M.E. (*Ohio State University*) 1909

In Entomology
Henry Gordon MacGregor Crawford, B.S. (*Toronto University*) 1915
Hachiro Yuasa, B.S. (*Kansas Agricultural College*)1915

In Genetics
Alvin Texas Fishman, B.S., 1916

In Horticulture
Howard Dexter Brown, B.S., 1914
Charlton Page Lathrop, B.S., 1916

In Household Science
Rhoda Fahnestock, B.S. (*Rockford College*) 1916
Bernice Cornelia Wait, B.S. (*McKendree College*) 1914

In Mathematics
Harriet Scofield, B.S. (*Carthage College*) 1915
Dale S Young, B.S. (*Hedding College*) 1916

In Municipal and Sanitary Engineering
Harold Eaton Babbitt, B.S. (*Massachusetts Institute of Technology*) 1911

In Railway Electrical Engineering
Benito Rene Ordonez, B.S., 1914

In Theoretical and Applied Mechanics
Melvin Lorenius Enger, B.S., C.E., 1906, 1911
Louis J Larson, B.S. (*University of Minnesota*) 1914, 1915
Willard Wood Lauer, B.S. (*Carnegie Institute of Technology*) 1916
Richard Laurence Templin, B.S. (*University of Kansas*) 1915

In Zoology
Elizabeth Bodfish, Ph.B. (*Brown University*) 1914
George Wallace Vanzee, B.S. (*Central College, Iowa*) 1915

Professional Degrees in Engineering

The Degree of Civil Engineer
Ralph Anderson Bennitt, B. S., 1913
James Waldo Harris, B.S., 1886
Raymond Rudolph Lundahl, B.S., 1911
Roger Leroy Morrison, A.B., B.S., 1911, 1912, A.M. (*Columbia University*) 1914
Thomas Merritt Pittman, Jr., B.S., 1911
Kenneth Hammet Talbot, B.S., 1909
Frederick Ketchum Vial, B.S., 1885
George Edward Warren, B.S., 1912

The Degree of Electrical Engineer
Glen David Bagley, B. S., M. S., 1912, 1913
Alonzo Morris Buck, M.E. (*Cornell University*) 1904
Eugene Stuart Hight, B.S., M.S., 1910, 1911
Herbert Kay Humphrey, B.S., 1911
Edward Hardenbergh Waldo, A.B. (*Amherst College*) 1888, M.E. (*Cornell University*) 1890, M.S., 1914

The Degree of Mechanical Engineer
Laurence Richard Gulley, B.S., M.S., 1910, 1911
Frederick John Schlink, B.S., 1912

The Degree of Doctor of Philosophy

In Animal Nutrition
Eugene Maximilian Karl Geiling, A.B. (*University of the Cape of Good Hope*) 1911, M.S., 1915

In Botany
Harry Warren Anderson, A.B., A.M. (*Wabash College*) 1907, 1910

In Chemistry
Silas Alonzo Braley, A.B. (*Morningside College*) 1913, M.S., 1915
Edward Marion Augustus Chandler, A.B. (*Howard University*) 1913, A.M. (*Clark University*) 1914
Henry Granger Knight, A.B., A.M. (*University of Washington*) 1902, 1905
Harry Cleveland Kremers, A.B. (*Hope College*) 1913, M.S., 1915
Glenn Seymour Skinner, A.B., 1913, A.M., 1915
Henry Joseph Weiland, B.S. (*University of Rochester*) 1913, M.S., 1915
Edward Wichers, A.B. (*Hope College*) 1913, M.S., 1915

In Economics
Chuan-Ynig Hsu, A.B. (*University of Nanking*) 1905, A.M., 1915
Charles Jacob Stowell, B.S. (*Illinois Wesleyan University*) 1911, A.M., 1912

In Education
Albert James Beatty, A.B. (*Knox College*) 1900, A.M., 1915
Rufus Clarence Bentley, A.B., A.M. (*University of Nebraska*) 1894, 1896
Theodore Spafford Henry, A.B. (*Hedding College*) 1903, A.M., 1916
Herschel Thurman Manuel, A.B. (*DePauw University*) 1909, A.M. (*University of Chicago*) 1914
Wilfred Stanton Miller, A.B., A.M. (*Indiana University*) 1910, 1911

In Engineering
Sentaro Sekine, B.S., A.B, 1913, 1914

In English
Delmar Gross Cooke, A.B., A.M., 1912, 1915
Ralph Earle Tieje, A.B., A.M., 1910, 1912

In Genetics
Elmer Roberts, B.S., 1913

In Geology
Merle Louis Nebel, B.S., M.S., 1913, 1915

In German
Daniel Frederick Pasmore, A.B. (*Albion College*) 1913, A.M., 1914

In History
J Earll Miller, A.B., LL.B. (*University of Kansas*) 1910, 1912, A.M., 1913

In Horticulture
Newton Lyman Partridge, B.S., M.S., 1913, 1914

In Mathematics
Clarence Mark Hebbert, B.S. (*Otterbein College*) 1911, M.S., 1914
Guy Watson Smith, B.S., M.S. (*University of Colorado*) 1908, 1909
William Harold Wilson, A.B. (*Albion College*) 1913, A.M., 1914

In Philosophy
Carl Herman Haessler, A.B. (*University of Wisconsin*) 1911, A.B. (*Oxford University*) 1914

In Physics
Sylvan Jay Crooker, B.S. (*Carleton College*) 1914. M.S., 1915

In Psychology
Anne Sophie Rogers, A.B., A.M., 1911, 1914

In Zoology
Francis Marsh Baldwin, A.B. (*Clark College*) 1906, A.M. (*Clark University*) 1907
Arthur Reuben Cooper, A.B., A.M. (*University of Toronto*) 1910, 1911
Ernest Carroll Faust, A.B. (*Oberlin College*) 1912, A.M., 1914
Ruth Higley, A.B. (*Grinnell College*) 1908
Thomas Byrd Magath, Ph.B. (*Emory University*) 1913, M.S. (*James Millikin University*) 1914
Henry Gustav May, B.S. (*University of Rochester*) 1913

The Francis John Plym Fellowship In Architecture

Henry Dubin, 1915

SCHOLARS AND FELLOWS, 1917-1918

Zilpha Curtis Battey, Scholar in Household Science (*Nominee of College of Liberal Arts and Sciences*)
Paul Levern Bayley,[1] Fellow in Physics
Amy Adaline Beach, Scholar in German
Walter Spurgeon Beach, Fellow in Botany
Clarence Arthur Berdahl, Fellow in Political Science
Bruce J Brown,[1] Scholar in Mathematics
Hazel Elizabeth Brown, Scholar in English
Gilbert Hooper Collings, Fellow in Agronomy
Henry Gordon MacGregor Crawford, Fellow in Entomology
Harold Fordyce Crooks,[1] Fellow in Geology
Roy Lefevre Davis,[1] Fellow in Education
Ernest E DeTurk, Fellow in Agronomy
Dee Dorsey, Scholar in History (*Nominee of Hedding College*)
Louise Burnham Dunbar,[1] Fellow in History
Edith Marie Emerson, Scholar in German
Grace Green, Scholar in Classics (*Nominee of Illinois Wesleyan University*)
Wendell Horace Griffith, Scholar in Chemistry (*Nominee of Greenville College*)
Margaret Scudder Haley, Scholar in History (*Nominee of Knox College*)
Mona Pearl Hodnett, Scholar in Classics
Hazel Katherine Houck, Scholar in English
Jesse Marie Jacobs, Fellow in Mathematics
Minna Ernestine Jewell, Fellow in Zoology
Henry Wilbur Kamp, Scholar in Classics
Albert Keiser, Fellow in English
James Ernest Kindred, Fellow in Zoology
Alice Gertrude King, Scholar in Classics
Lane W Lancaster, Scholar in History
Bertha Langwill, Scholar in Zoology
Claude Jerome Lapp,[1] Scholar in Physics
Florence Long, Fellow in Mathematics
Leslie Ray Marston,[1] Fellow in Education
Martha Lucile Meloy, Scholar in English (*Nominee of Monmouth College*)
Paul Harwood Miller, Scholar in Economics
Ruth Eliza Okey, Fellow in Chemistry
Leland George Osborn, Scholar in Education
Albert Waffle Owens,[1] Fellow in Chemistry
Reuben Walter Peterson,[1] Scholar in Dairy Husbandry (*Nominee of College of Agriculture*)
Elsie Myrtle Putcamp, Scholar in English (*Nominee of Carthage College*)
Edwin Arthur Rees, Fellow in Chemistry
Ernest Rudolph Schulz, Fellow in Agronomy
Horace Abbott Shonle, Fellow in Chemistry
Merlin Grant Smith, Fellow in Mathematics
Hazel Snuff, Scholar in History (*Nominee of Northwestern College*)
Ora Mary Theobald, Scholar in English (*Nominee of Illinois Women's College*)
William Chilton Troutman, Scholar in English
Helen Updegraff,[1] Fellow in Chemistry
Ernest Henry Vollweiler, Fellow in Chemistry
Herbert August Winkelmann, Fellow in Chemistry
Mildred Gail Wright, Scholar in Household Science
Hachiro Yuasa, Fellow in Entomology

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[1] Resigned.

UNIVERSITY HONORS

Awarded by the Faculty of the University

HONORS AT COMMENCEMENT

(*June, 1917*)

College of Liberal Arts and Sciences

THE DEGREE OF A.B. WITH HONORS

Beulah Irene Agnew, in English
Julius Cohen, in Philosophy
Weastell Taylor Doe, in Psychology
Irene Holbrook Moore, in German
Mary Lucille Shay, in History
Ethel Gertrude Stephens, in History
Katherine Randall Tener, in Classics

SPECIAL HONORS

College of Liberal Arts and Sciences

Leon Adler, in Chemistry
Ivar Ninus Hultman, in Chemistry
George Stuart Monroe, in Chemistry
Walter Valentine Wirth, in Chemistry

College of Engineering

Frederick Augustus Brooks
Harlan Hammond Edwards
Percy Wright Ott
Paul Albert Raibourn
Humphreys Oliver Siegmund
Luther Franklin Simpson

College of Agriculture

Philip Frank Davis

FINAL HONORS

College of Liberal Arts and Sciences

Leon Adler
Ivar Ninus Hultman
Adolph Walter Landstrom
George Stuart Monroe
Walter Valentine Wirth

College of Commerce and Business Administration

Edward Springer Axline
Bradford Reed Battey
Columbus Ferrel Hayes
James Forsyth McCloud
Scott McNulta

College of Engineering

Tze-Li Chang
Charles M Clark
George Otto Consoer
Charles McKinley Ettinger
Charles Russell Federmann
John Herman Flemming
Anker Sverre Graven
Myron Scott Hancock
Walter August Himmelreicher
Andrew Joseph Huber
Percy Wright Ott
Harrison George Overend
Paul Albert Raibourn
John Hubert Ramser
Maurice Johnson Reed
Harold Henry Schroeppel
Humphreys, Oliver Siegmund
John Chauncey Sherrick
Luther Franklin Simpson
Thomas Elmer Stockdale

College of Agriculture

Sarah Agg
Harlow Wood Brown
Harry Leonard Carlson
Philip Frank Davis
George Harlan Dungan
Jessie Lucilla Fox
Ruth Marie Glassco
Newton Fox Grey
Charles Henry Grewe
Lois Greene Guild
Roy Everett Hipple
Paul Evans Johnston
Frank Leggitt
Jesse Ward Nelson
Arthur Alexis Olsen
Reuben Walter Peterson
Warren McLellan Richmond
Ferdinand John Schleifer
Gerald Russell Scott
Amelia Marie Sloan
Wayne McKenzie Stevens
Ailsie Miller Stevenson
Marion Kingsley White

College of Law

Essel Ray Dillavou
Albert Bernard Holecek

School of Music

Sela Isabel Paisley

Library School

Jessie Beatrice Weston

HONOR GRADUATES IN MILITARY SCIENCE

William O. Nelson
William F. Campbell
John T. Lewis
Russell L. McKown
Harrison G. Overend
Cecil W. Borton
Irwin L. Lummis
John R. Lindsey
Robert H. Engle
Paul M. Boston

COMMISSIONED AS BREVET CAPTAINS, ILLINOIS NATIONAL GUARD, ISSUED BY THE GOVERNOR IN 1916

William Olaf Nelson
John Howard Powers
William Franklin Campbell
John Timothy Lewis
Robert Henry Engle
John Royer Lindsey
Harry Lee Husson
Barlow Manierre Ware
Thomas Treston McEvoy
Christian Gross
Russel Leamer McKnown
John Ekern Ott
Luther Franklin Simpson
Roland Hall Lawrence
Cecil Walden Borton
Howard Cyril Geselbracht
George Cyril Darrell
Edward Springer Axline
James Lewis Crawford
Julien Hequembourg Needler
Irwin Blaine Olin
Humphreys Oliver Siegmund
Lloyd Walton Chalcraft
Charles Allen Brit
Malcolm Douglas Roberts
Leonard Lewis Davis
Donald Tyler Swain
Julius Nicholai Johnson
Harrison George Overend
Percy Wright Ott
John Wesley Smith
Lambertus Warmilts, Jr.
George Leslie Smith
Donald David Sharer
Lyle Wilbur Hines
Charles Arthur Drake
Tom Sherman Hamilton
Irwin Lytle Lummis
Ivar Ninus Hultman
Victor Anthony Pecchia
Allen Center Wilson

REPORTED TO THE ADJUTANT GENERAL, UNITED STATES ARMY, AS DISTINGUISHED CADETS

William Olaf Nelson
William Franklin Campbell
John Timothy Lewis
Russell Leamer McKown
Harrison George Overend
Cecil Walden Borton
Irwin Lytle Lummis
John Royer Lindsey
Robert Henry Engle
Paul Boston

ROSTER OF OFFICERS OF THE UNIVERSITY BRIGADE, 1917-18

Colonels

C. Fairman
F. C. Kalthoff

Lieutenant-Colonels

E. R. Brigham
V. H. Grossberg

Majors

L. E. Yeager
N. O. Taylor
L. H. Schreiber
F. E. Lungdren
C. E. Snell

Captains

J. P. Schnellbacher
A. H. Watts
H. B. Whitney
W. J. Risley
H. Beidler
T. H. Armstrong
S. C. Greene
N. R. Thomas
V. P. Dory
A. H. Morton
M. B. Downs
A. H. R. Fischer
B. E. Skinner
N. Feldman
P. S. Nelson
L. E. Cutler
R. J. Tarbox
T. L. Jones

C. F. Henning
B. K. Brown
D. A. Blair
C. A. McNaughton
O. A. Stice
F. B. Mallory
L. A. Torrence
C. A. Nagel
J. J. Bickel
R. W. Cornelison
J. H. Andrews
W. G. Kopal
E. J. Smiley
A. H. Bodenschatz
L. M. Patton
R. E. Fulton

First Lieutenants

A. V. Baraglia
C. J. Scanlan
G. S. McLaughlin
T. E. Lowery
W. W. Means
S. Faircloth
K. Sparks
W. G. Bishop
W. G. Hanawalt
H. Dunn
W. M. Carter
L. E. Murry
A. Ellington
D. L. Marsteller
A. F. Thal
H. H. Holtzman
W. Einbecker
T. H. Hull
V. B. Nutt
E. A. Norton
L. S. Pappmeier
F. Gordon
I. P. Cohen
P. A. Neibergall
N. L. Rice
W. Shaw
M. E. Thornton
C. B. Schmeltzer
S. P. Vidal
F. J. Meek
V. A. Wenke
Z. Odenkirk
H. C. Clark

Second Lieutenants

B. Bartos
L. E. Heyduck
K. W. Miller
C. C. Shade
J. Brooks
F. S. Hager
B. S. Zuckerman
H. W. Hudson
E. J. Hanaford
J. R. Spencer
E. R. Devol
F. W. Eldridge
L. Dickson
C. R. Hollingsworth
F. M. Gaylord
R. S. Cooke
E. C. Bennett
H. D. Thomas
W. L. Keepers
T. H. Brock
F. Klenk
W. Bloodgood

ANNUAL COMPETITIVE DRILL—1917

Hazleton Gold Medal........................Private A. N. Lies, Company "I" Second Infantry

PRIZES

American Institute of Architects Medal

Charles Russell Federmann

The Joseph C. Llewellyn Prize in Architectural Engineering

Ralph Ellsworth Dippell

The B'nai B'rith Prizes

(For Upper Classman)
Anita Libman, first prize
Bertha H Bing, second prize

(For Freshmen)
Lillian Helen Lyons

The Phi Beta Kappa Prize

Ethel Gertrude Stephens

The St. Patrick's Day Prize

Not Awarded

The Thacher Howland Guild Memorial Prize

Not Awarded

Conference Medal for Excellence in Scholarship and Athletics for the Year 1917

Clyde Gobel Alwood

SUMMARY OF DEGREES CONFERRED

1917

Degrees in the Graduate School	*Men*	*Women*	*Total*
A.M.	50	28	78
A.M. (February 21, 1917)	1	..	1
A.M. (August 10, 1917)	2	..	2
A.M. (October 20, 1917)	4	2	6
M.S.	49	5	54
M.S. (February 21, 1917)	2	..	2
M.S. (October 20, 1917)	3	..	3
C.E.	8	..	8
E.E.	5	..	5
M.E.	2	..	2
Ph.D	34	2	36
Total, Graduate School	160	37	197
Degrees in Liberal Arts and Sciences			
A.B.—with thesis	7	7	14
A.B.—without thesis	53	90	143
A.B.—(February 21, 1917)	5	..	5
A.B.—(August 10, 1917)	2	3	5
A.B.—(October 20, 1917)	9	4	13
A.B.—Household Science	..	48	48
A.B.—Medicine	5	..	5
A.B.—Medicine (October 20, 1917)	2	..	2
B.S.—Science (October 20, 1917)	1	..	1
B.S.—Chemistry	8	..	8
B.S.—Chemistry (August 10, 1917)	1	..	1
B.S.—Chemistry (earlier class)	1	..	1
B.S.—Chemical Engineering	20	..	20
B S.—Chemical Engineering (February 21, 1917)	2	..	2
Total, Liberal Arts and Sciences	116	152	268 ✓
Degrees in Commerce and Business Administration			
A.B.—with thesis	1	..	1
A.B.—without thesis	69	1	70
A.B.—(February 21, 1917)	1	..	1
A.B.—(August 10, 1917)	1	..	1
B.S.—without thesis	2	1	3
Total, Commerce	74	2	76 ✓
Degrees in Engineering			
B.S.—Architecture	25	1	26
B.S.—Architectural Engineering	31	..	31
B.S.—Architectural Engineering (October 20, 1917)	1	..	1
B.S.—Ceramic Engineering	8	..	8
B.S.—Civil Engineering	37	..	37
B.S.—Civil Engineering (August 10, 1917)	1	..	1
B.S.—Civil Engineering (October 20, 1917)	1	..	1

B.S.—Electrical Engineering	43	..	43
B.S.—Electrical Engineering (October 20, 1917)	2	..	2
B.S.—Mechanical Engineering	40	..	40
B.S.—Mining Engineering	7	..	7
B.S.—Mining Engineering (October 20, 1917)	1	..	1
B.S.—Municipal and Sanitary Engineering	8	..	8
B.S.—Railway Civil Engineering	3	..	3
B.S.—Railway Civil Engineering (October 20, 1917)	1	..	1
B.S.—Railway Electrical Engineering	4	..	4
B.S.—Railway Mechanical Engineering	3	..	3
B.S.—Mechanical Engineering (earlier class)	1	..	1
Total, Engineering	217	1	218
Degrees in Agriculture			
B.S.—with thesis	4	..	4
B.S.—without thesis	174	1	175
B.S.—(January 24 and February 21, 1917)	2	..	2
B.S.—(October 20, 1917)	4	..	4
B.S.—Floriculture	2	..	2
B.S.—Landscape Gardening	6	3	9
B.S.—Landscape Gardening (October 20, 1917)	..	1	1
B.S.—Teachers'	1	..	1
B.S.—Household Science (with thesis)	..	1	1
B.S.—Household Science (without thesis)	..	36	36
Total, Agriculture	193	42	235
Degrees in Law			
LL.B	20	..	20
J.D.	3	..	3
Total, Law	23	..	23
Degrees in Library Science			
B.L.S.	..	10	10
Degrees in Music			
B. Mus	..	8	8
B. Mus.—(August 10, 1917)	..	1	1
Total, Music	..	9	9
TOTAL, COLLEGES AND SCHOOLS AT URBANA	783	253	1036
Degrees in Medicine			
B.S.	35	4	39
M.D.	47	2	49
Total, Medicine	82	6	88
Degrees in Dentistry			
D.D.S.	38	..	38
Degrees in Pharmacy			
Ph.G.	49	4	53
Ph.G. (October 20, 1917)	1	..	1
Ph.C.	6	1	7
Total, Pharmacy	56	5	61
TOTAL, COLLEGES AND SCHOOLS IN CHICAGO	176	11	187
GRAND TOTAL	959	264	1223

SUMMARY OF OFFICERS

BY COLLEGES AND SCHOOLS

1917-1918

OFFICERS OF INSTRUCTION

Colleges, Schools, and Departments	Professors		Associate Professors		Assistant Professors		Associates	
	Men	*Wom.*	*Men*	*Wom.*	*Men*	*Wom.*	*Men*	*Wom.*
Liberal Arts and Sciences	48	..	8	..	21	..	25	2
Commerce and Business Administration	4	..	2	..	3	..	1	..
Engineering	24	..	3	..	18	..	22	..
Agriculture	14	1	2	..	22	1	26	5
Music	1	..	..	..	1	..	..	..
Law	6	..	..	..	1	..	..	..
Library	1	..	..	..	..	1	..	1
Military Science	1	..	..	..	..	..	..	..
Physical Training	1	1	..	..	..	..	4	..
Photography	..	..	..	..	..	..	..	..
Pageantry	..	..	..	..	..	..	..	..
Totals at Urbana	100	2	15	..	66	2	78	8
Medicine	23	..	6	1	14	..	15	..
Dentistry	8	..	..	..	6	..	4	..
Pharmacy	2	..	..	..	2	..	..	..
Totals in Chicago	33	..	6	1	22	..	19	..
TOTALS IN UNIVERSITY	133	2	21	1	88	2	97	8

OFFICERS OF ADMINISTRATION

General...

Library Staff...

TOTAL, INSTRUCTIONAL AND ADMINISTRATIVE....................

Deduct duplicates...

NET TOTAL IN UNIVERSITY..

SUMMARY OF OFFICERS

BY COLLEGES AND SCHOOLS

1917-1918

Special Lecturers		Instructors		Assistants		Graduate Assistants		Student Assistants		Totals		
Men	*Wom.*	*Men*	*Wom.*	*Men*	*Wom.*	*Men*	*Wom.*	*Men*	*Wom.*	*Men*	*Wom.*	*Total*
7	..	33	9	80	18	15	2	7	1	244	32	276
1	..	9	..	6	..	..	..	..	..	26	..	26
..	..	26	..	14	1	7	..	1	..	115	1	116
..	..	20	7	19	6	..	..	..	..	103	20	123
..	..	6	3	..	..	..	..	..	..	8	3	11
..	..	..	..	..	..	..	..	..	..	7	..	7
..	1	..	2	..	1	..	..	..	..	1	6	7
..	..	..	..	..	..	..	..	17	..	18	..	18
..	..	1	3	3	3	..	..	..	1	9	8	17
..	..	1	..	..	..	..	..	..	..	1	..	1
1	..	..	..	..	..	..	..	..	..	1	..	1
9	1	96	24	122	29	22	2	25	2	533	70	603
3	..	48	2	12	1	..	..	4	1	125	5	130
2	..	16	2	5	..	..	..	5	1	46	3	49
1	..	3	..	..	..	..	..	..	..	8	..	8
6	..	67	4	17	1	..	..	9	2	179	8	187
15	1	163	28	139	30	22	2	34	4	712	78	790
										51	4	55
										8	44	52
										771	126	897
										59	2	61
										712	124	836

SUMMARY OF STUDENTS

1917-1918

College and Course	*Seniors*			*Juniors*			*Sophomores*		
	Men	*Wom.*	*Total*	*Men*	*Wom.*	*Total*	*Men*	*Wom.*	*Total*
LIBERAL ARTS AND SCIENCES									
General	49	122	171	65	117	182	84	136	220
Medical Preparatory	2	1	3	2	1	3	26	5	31
Household Science	...	65	65	...	80	80	...	52	52
Chemistry	15	1	16	10	...	10	14	...	14
Chemical Engineering	13	...	13	24	...	24	31	...	31
Totals	79	189	268	101	198	299	155	193	348
COMMERCE AND BUSINESS ADMINISTRATION	57	4	61	89	4	93	126	10	136
ENGINEERING									
Architecture	27	...	27	17	...	17	15	...	15
Architectural Eng.	58	...	58	24	...	24	31	...	31
Ceramic Engineering	7	...	7	5	...	5	10	...	10
Civil Engineering	72	...	72	34	...	34	39	...	39
Electrical Engineering	126	...	126	40	...	40	32	...	32
Mechanical Engineering	105	...	105	50	...	50	47	...	47
Mining Engineering	7	...	7	6	...	6	1	...	1
Mun. and San. Eng.	2	...	2	1	...	1	6	...	6
Railway Civil Eng.	4	...	4	2	...	2	5	...	5
Railway Electr. Eng.	3	...	3	4	..	4	5	...	5
Railway Mech. Eng.	5	...	5	1	...	1	1	...	1
Totals	416	...	416	184	...	184	192	...	192
AGRICULTURE									
General	124	6	130	115	7	122	121	3	124
Household Science	...	25	25	...	16	16	...	20	20
Totals	124	31	155	115	23	138	121	23	144
MUSIC	...	12	12	...	10	10	1	15	16
Total Undergraduates at Urbana	676	236	912	489	235	724	595	241	836
				Third Year			*Second Year*		
LAW				7	...	7	7	1	8
LIBRARY SCHOOL							2	11	13
Totals, Undergraduates and Professional Students at Urbana									
GRADUATE SCHOOL									
Totals at Urbana, Winter Session									
SUMMER SESSION, 1917									
Undergraduates									
Graduates									
Total, Summer Session									
Totals at Urbana, to February 28, 1918									
	Seniors			*Juniors*			*Sophomores*		
MEDICINE (Chicago)	27	3	30	48	2	50	85	4	89
DENTISTRY (Chicago)	54	2	56	72	4	76	6	...	6
PHARMACY (Chicago)				*Third Year*			*Second Year*		
Regular Course				4	2	6	47	4	51
Special Course				...	...	...	6	...	
Total, Pharmacy				4	2	6	53	4	57
Total in Chicago									
Total in University, to February 28, 1918									
Duplicates to be Deducted									
Summer Session Undergraduates returned for Winter Session									
Summer Session Graduate Students returned for Winter Session									
Total duplicates									
NET TOTAL, to February 28, 1918									

SUMMARY OF STUDENTS

1917-1918

Freshmen			Specials			Totals		
Men	*Wom.*	*Total*	*Men*	*Wom.*	*Total*	*Men*	*Wom.*	*Total*
255	291	546	6	16	22	459	682	1141
50	3	53	...	...	...	80	10	90
...	94	94	...	...	...	...	291	291
21	2	23	...	...	...	60	3	63
85	...	85	...	...	...	153	...	153
411	390	801	6	16	22	752	986	1738
297	17	314	2	...	2	571	35	606
9	...	9	...	2	2	68	2	70
19	...	19	1	...	1	133	...	133
4	...	4	...	...	...	26	...	26
17	...	17	1	...	1	163	...	163
29	...	29	1	...	1	228	...	228
26	...	26	1	...	1	229	...	229
3	...	3	1	...	1	18	...	18
2	...	2	...	...	...	11	...	11
3	...	3	...	...	...	14	...	14
4	...	4	...	...	...	16	...	16
1	...	1	...	...	...	8	...	8
117	...	117	5	2	7	914	2	916
154	16	170	9	1	10	523	33	556
...	39	39	...	1	1	...	101	101
154	55	209	9	2	11	523	134	657
6	40	46	4	25	29	11	102	113
985	502	1487	26	45	71	2771	1259	4030
	First Year							
17	3	20	9	2	11	40	6	46
8	32	40	...	...	...	10	43	53
						2821	1308	4129
						298	77	375
						3119	1385	4504
						302	388	690
						121	22	143
						423	410	833
						3542	1795	5337
	Freshmen			*Specials*				
91	2	93	1	...	1	252	11	263
34	1	35	...	...	...	166	7	173
	First Year							
57	1	58	...	...	...	108	7	115
23	3	26	...	...	....	29	3	32
80	4	84				137	10	147
						555	28	583
						4097	1823	5920
						128	135	263
						60	7	67
						188	142	330
						3909	1681	5590

DIRECTORY OF ALUMNI ASSOCIATIONS

GENERAL ALUMNI ASSOCIATION

Office: 358 Administration Building, University of Illinois, Urbana-Champaign.
Official Publication: The Alumni Quarterly and Fortnightly Notes, 358 Administration Building.
To foster a spirit of loyalty and fraternity among the graduates and former students of the University of Illinois and to effect united action in promoting the welfare of the University.
President: H. J. Burt, '96, Office of Quartermaster-General, Fifteenth and M streets, Washington, D.C.
Secretary-Treasurer: Franklin W. Scott, '01, 703 Michigan avenue, Urbana, Ill.

DEPARTMENTAL ALUMNI ASSOCIATIONS

The Alumni Association of the Library School
President: Mrs. Bertha S. Baird, '11, Mason City Public Library, Mason City, Iowa.
Secretary-Treasurer: Josie B. Houchens, '05, University of Illinois Library
The Alumni Association of the College of Medicine
President: Dr R. W. Morris, '02, 4301 Ellis Ave., Chicago
Secretary: Dr. W. C. Hammond, '11, 737 Sheridan Road, Chicago
The Alumni Association of the College of Dentistry
President: Dr. C. M. Loescher, '04, 1134 Webster Ave., Chicago
Secretary: Dr. Louis Miller, '06, 813 W. Harrison street, Chicago
The Alumni Association of the School of Pharmacy
President: George P. Mills, '84, Evanston, Ill.
Secretary-Treasurer: A. H. Clark, 74 E. Twelfth street, Chicago

LOCAL ALUMNI ASSOCIATIONS

California

San Francisco: The Golden Gate Alumni Association of the University of Illinois
President: Wm. G. Humnel, '07, 2691 Cedar street, Berkeley
Secretary-Treasurer: Ruth Raymond Haseltine, '99, Berkeley
Southern California: The University of Illinois Alumni Association of Southern California
President: James T. Barrett, '93, Riverside
Secretary: Emma E. Seibert, '91, 1535 N. Western ave., Los Angeles

Colorado

University of Illinois Club of Colorado
President: Frank L. Birney, '81, 309 Ideal block, Denver
Secretary-Treasurer: Dr. T. J. Fenton, '06, Majestic Building, Denver

District of Columbia

Washington: University of Illinois Club of Washington
Presiden4: S. T. Henry, '04, 703 Colorado bldg.
Secretary: T. W. Walton, '10, 1736 G street

Idaho

The Illini Club of Idaho
President: C. F. Pike, '99, U. S. Assay Office, Boise
Secretary: F. N. Ropp, '08, Federal bldg., Boise

Illinois

Aurora: Aurora Illini Club
President: M. A. Kendall, '07, 715 Garfield blvd.
Secretary-Treasurer: W. B. Greene, '08, care Stephens-Adamson Co.
Belleville: The Illini Club of Belleville
President: L. N. Perrin, '07 Penn bldg.
Secretary: C. R. Ogle, '13, 617 E. B street
Centralia: Centralia Illini Club
President: Charles Wham, '12
Champaign: Champaign County Illini Club
President: L. U. Everhart, '09, 1207 S. Orchard street, Urbana
Secretary-Treasurer: R. F. Little, '07, 606 Chalmers street, Champaign
Chicago: The Illini Club of Chicago
President: R. N. Erskine, '09, 517 Harris Trust bldg.
Secretary: George Ward, '10, Del Prado Hotel
University of Illinois Alumnæ Association of Chicago
Secretary-Treasurer: Carrie Norton Laemmle, '07, 6132 Langley ave., Chicago
Decatur: Decatur Illini Club
President: W. J. Carey, '06, 718 W. Marietta street
Freeport: Freeport Illini Club
President: C. E. McCool, ex-'09, 538 Lincoln ave.
Secretary: L. E. Mensenkamp, ex-'14, 51 Cottonwood street
La Salle County: La Salle County Illini Club
President: D. G. Cairns, '02, 633 Congress street, Ottawa
Secretary-Treasurer: J. R. Fornof, '10, 804 S. Park street, Streator

Peoria: Peoria Illini Club
President: Irwin Fuller, '10, 415 Woolner bldg.
Secretary: N. C. Seidenberg, '15 (In the Army)
Rockford: University of Illinois Club of Rockford
President: E. G. Brands, '11 (In the Army)
Secretary-Treasurer: J. G. Fillmore. '09, 411 W. State street
Springfield: Springfield Illini Club
President: Fleetwood Lindley, '09, 904 S. Fifth street
Secretary: Winifred Supple, ex-'15
Vermilion County: Vermilion County Illini Club
Secretary-Treasurer: Mabel Bredehoft, '09, 309 Walnut street, Danville
Western Illinois: Western Illinois Illini Association
President: W. E. Whiteside, '07, Moline
Secretary-Treasurer: James M. Johnston, '09, Moline

Indiana

Indianapolis: Indianapolis Illini Club
President and Acting Secretary: C. E. Sargent, '86, 2272 N. Meridian street

Iowa

Des Moines: Des Moines Illini Club
President: L. S. Ross, '89, 1308 Twenty-seventh street
Secretary: E. R. Crowson, ex-'16, care American Life Ins. Co.

Massachusetts

Boston: New England Illini Club
President: C. P. Jeffres, '74, Swampscott, Mass.

Michigan

Detroit: The University of Illinois Alumni Association of Detroit
Secretary-Treasurer: Roy G. Bluth, '15, 832 Second ave.

Minnesota

Minneapolis and St. Paul: Illini Club of the Northwest
President: W. E. Lord, '10, 2601 Humbolt ave., Minneapolis
Secretary: E. O. Korsmo, '11, Y. M. C. A., St. Paul

Missouri

Kansas City: University of Illinois Southwestern Alumni Association
President: A. E. Harvey, '91, 817 E. Thirtieth street, Kansas City
Secretary: F. S. Stroheker, '15, 1107 Commerce bldg., Kansas City
St. Louis: The Illini Club of St. Louis
President: L. E. Meier, ex-'14, 7203 S. Broadway

New York

New York City: University of Illinois Alumni Association of New York
President: W. F. M. Goss, '04, 61 Broadway
Secretary: H. V. Swart, '06, 19 Liberty street
Schenectady: The Illini Club of Schenectady
President: D. R. Lagerstrom, '11, Box 810
Secretary-Treasurer: G. E. Stewart, '12, Gen. Electric Co.

North Dakota

Fargo: Fargo Illini Club
President: E. S. Keene, '90, 1028 Seventh street, N.
Secretary-Treasurer: I. W. Smith, '08, 1126 Thirteenth street

Ohio

Cincinnati: Cincinnati Illini Club
Secretary: C. M. Kennan, '12 (In the Army)
Cleveland: The Illini Club of Cleveland
Secretary: R. M. Van Petten, '03, 115 Elsinore street

Oregon

Portland: The Illinois Alumni Association of Portland
President: Mrs. Briggs O. Brown, '02, 5482 E. Forty-sixth street
Secretary-Treasurer: C. T. Terrill, '15, 230 E. Eighty-eighth street

Pennsylvania

Pittsburgh: University of Illinois Club of Pittsburgh
(President and Secretary both in the Army. Send letters to K. H. Talbot, '09, Frick bldg.)

Tennessee

Memphis: Memphis Illini Club
President: D. M. Crawford, '05, Builders Exchange

Texas

Houston: Houston Illini Club
President: F. G. Frost, '01, Box 1286
Secretary-Treasurer: C. E. Brockman, '11, 510 First National Bank bldg.
Palacios: Gulf Coast Alumni Club
President and Acting Secretary: Mary Williamson Elder, '87

Utah

Inter-Mountain Alumni Association of the University of Illinois
(President and Secretary both in the Army)

Washington

Puget Sound Association of the alumni and former students of the University of Illinois
Secretary-Treasurer: Roy Mason, '10 (In military service)

Wisconsin

MADISON: University of Illinois Alumni Association of Madison
President: A. F. Gallistel, ex-'09, care of University of Wisconsin
Secretary-Treasurer: H. W. Stewart, '09, care of University of Wisconsin
MILWAUKEE: University of Illinois Club of Milwaukee
President: E. O. Finkenbinder, '10, 1115 Maryland ave.
Secretary: E. C. Corrigan, '06, 695 Twenty-fourth ave.

LOCAL ASSOCIATIONS IN FOREIGN COUNTRIES

India

University of Illinois Association of India
President: George C. Hewes, '83, M. E. Mission, Sitapur, Oudh, India
Secretary: Agnes G. Hill, '92, Y. W. C. A., Lucknow, India

Japan

Illini Club of Japan
President: S. Shiga, '93, Tokyo Technical School, Tokyo
Secretary: G. Fujimura, '11, Agricultural Experiment Station, Taihoku, Formosa

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